

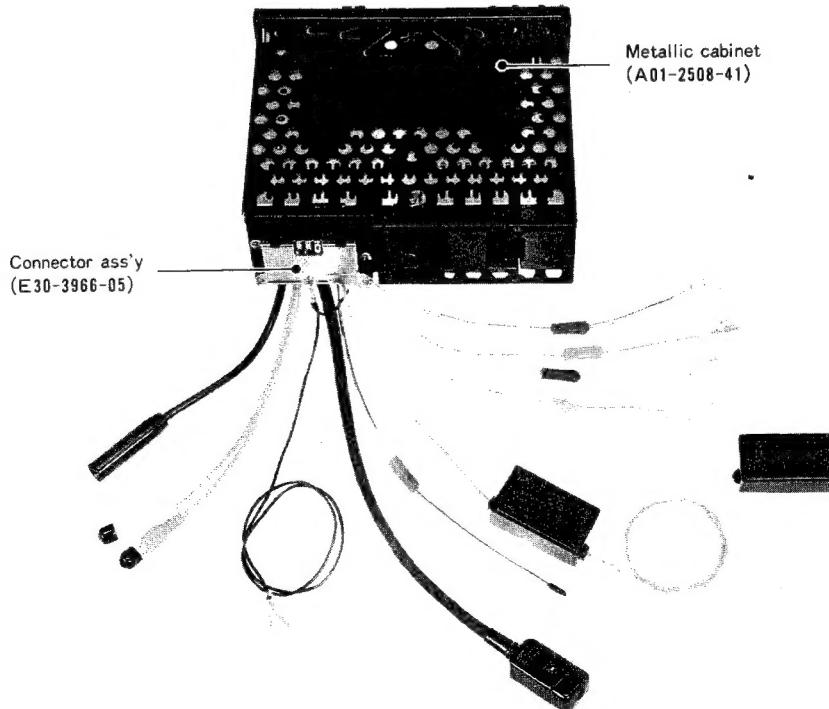
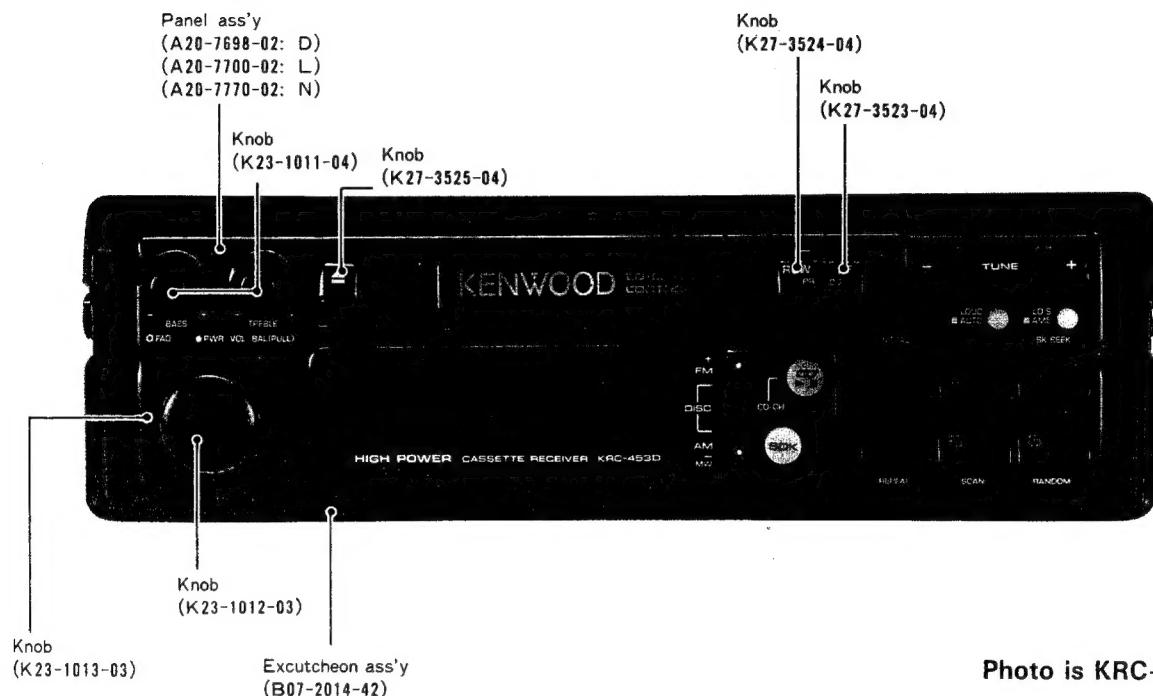
STEREO CASSETTE RECEIVER

KRC-453 D/L/N

SERVICE MANUAL

KENWOOD

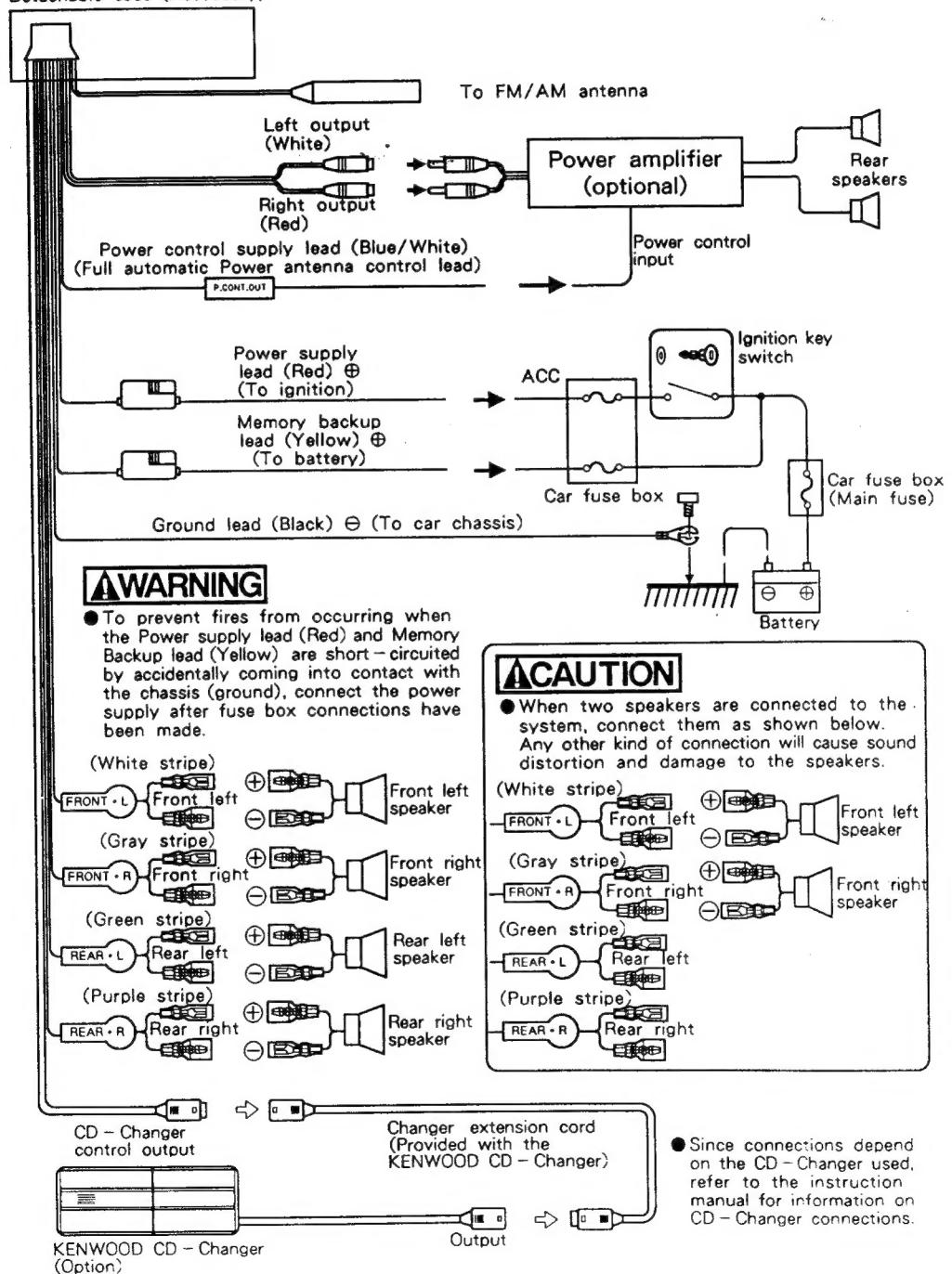
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B51-6388-00 (B) 1714



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CONNECTIONS

Detachable case (Accessory)

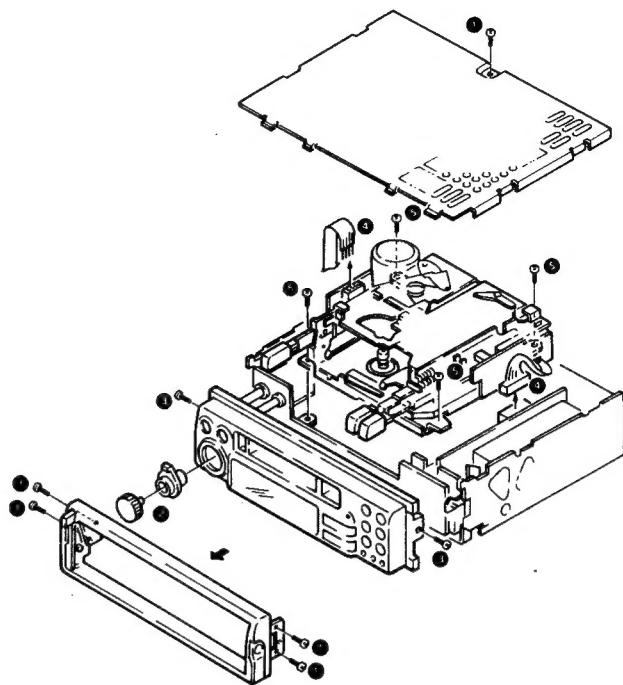


- Since connections depend on the CD - Changer used, refer to the instruction manual for information on CD - Changer connections.

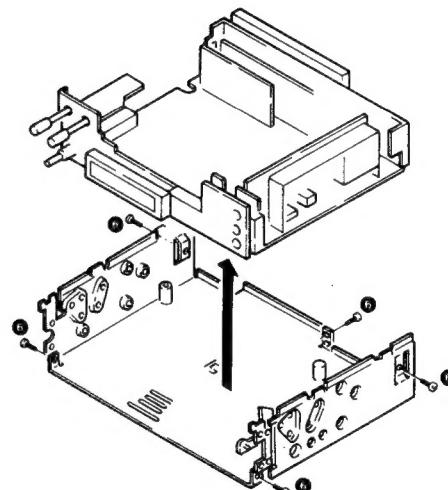
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DISASSEMBLY FOR REPAIR

1. Remove the 5 screws (1), then remove the top panel and the escutcheon ass'y.
2. Pull out the VOL and FAD control knobs (2).
3. Remove the 2 screws (3), and take out the panel ass'y.
4. Disconnect the 2 connectors (4).
5. Remove the 4 screws (5), and take out the mechanism ass'y.

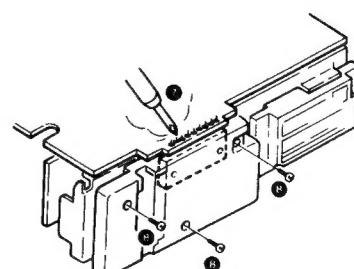


6. Remove the 6 screws (6), and take out the whole of the circuit board.



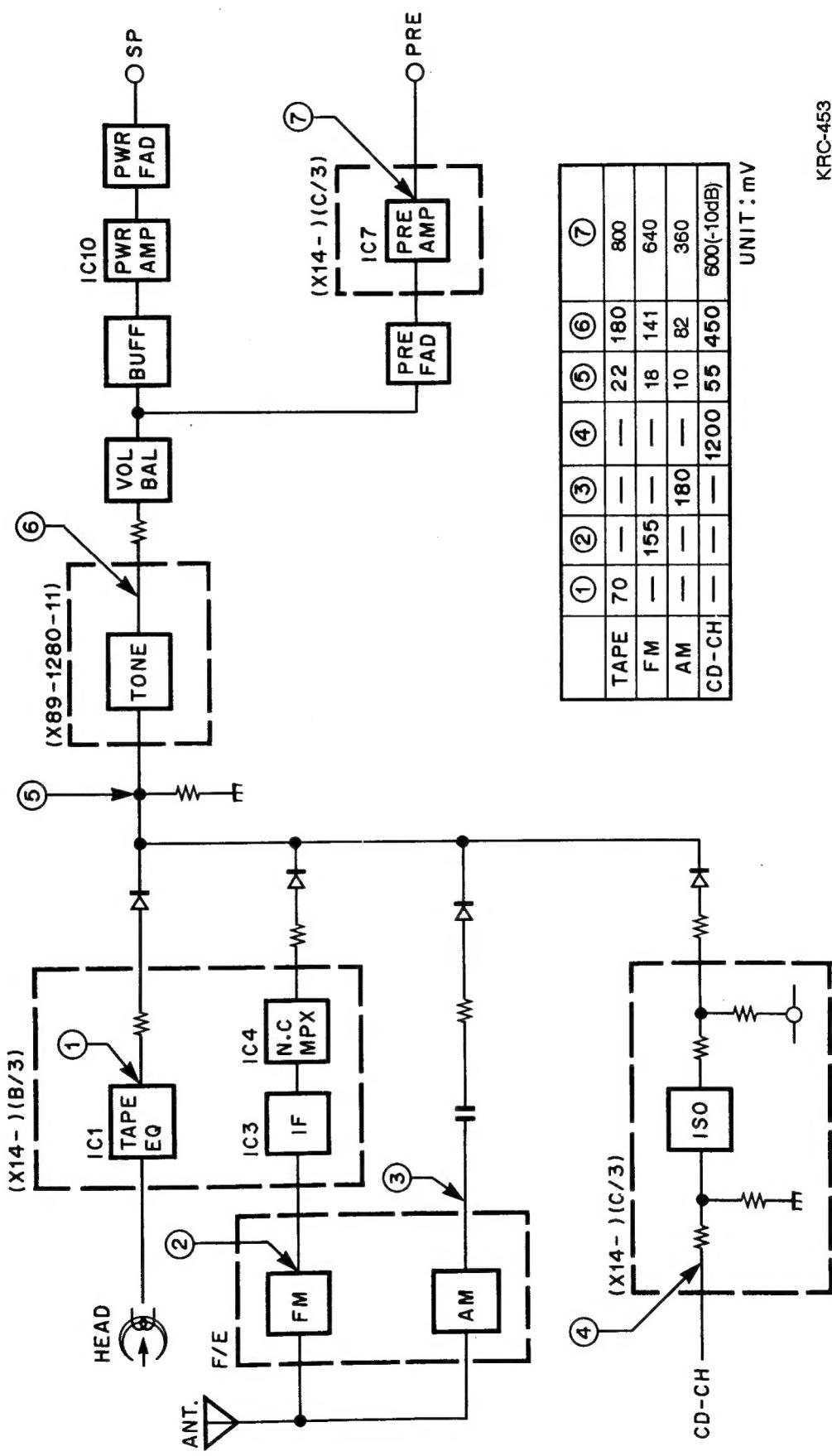
To remove the power ass'y:

7. Remove solder from the power IC (7).
8. Remove the 3 screws (8).
9. Take out the power IC together with the heat-sink, then separate the power IC from the heat-sink.



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BLOCK DIAGRAM



KRC-453

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CIRCUIT DESCRIPTION

Description of component

SYNTHESIZER UNIT (X14-347X-XX)

| Ref. No. | Components | Use/Function | Operation/Condition/Compatibility |
|----------|----------------|---|--|
| IC1 | BA3424F | TAPE EQ AMP | |
| IC3 | LA1140-K | FM IF AMP | FM IF signal amp. |
| IC4 | AN7465K | FM MPX N.C | Demodulator, noise canceler. |
| IC5 | M5280FP | ISOLATION AMP | CD-CH and AUX (J type) isolation amp. |
| IC6 | NJM4565MD | 1/2 V _{cc} BUFF | Buffers the voltage generated by Zener D and resistance division, and supplies voltage as 1/2 V _{cc} for the tone amp and preamp. |
| IC7 | NTM4565MD | PRE AMP | |
| IC10 | TA8215H | PWR AMP | |
| IC11 | BA3906-V1 | AVR | Supplies of V _{DD} , CE, COM 9V, FM 9V and AM 9V. MUTE output. |
| IC12 | 1723GF-593-38E | μ-COM | Key control, other controls, PLL, LCD drive. |
| IC13 | TC4081BF | AND Gate | For use with μ-COM key matrix (alternate SW). |
| IC14 | NJM 4565M | SDK IC INPUT BUFF, BK BPF | D type only |
| IC15 | TDA1579 | SDK IC | BK/DK signal demodulation and detection. D type only |
| Q3 | 2SC2413K | FM IF AMP | Amplifies IF signal from F/E. |
| Q4 | 2SC2412K | SD BUFF | |
| Q5 | 2SC2412K | CRSC Driver | |
| Q6 | 2SC2412K | ANRC BUFF | |
| Q7 | DTC144EK | AFC SW | OFF during seek, ON during receive. |
| Q10, 11 | DTC144EK | FM/AM SIG. INHIBITOR | |
| Q12 | DTC144EK | SIG. SW | ON in CD-CH and AUX modes. |
| Q13, 14 | DTC144EK | EXT. INPUT SIG. INH. | |
| Q15, 16 | 2SD1757K | VOL BOOST SW | D type only |
| Q17, 18 | 2SD1757K | LOUD CON SW | |
| Q19, 20 | 2SD1757K | AUDIO MUTE | |
| Q21, 22 | 2SK433 | PWR AMP INPUT BUFF | |
| Q23 | DTC144EK | PWR AMP STBY SW | |
| Q24 | DTC144EK | FM LO/DX SW | |
| Q25 | DTC144EK | AM BS DRIVER | L type only |
| Q26 | DTA144EK | AM BS SW | Q25 control L type only |
| Q27 | DTA144EK | AM AGC CUT SW | |
| Q29 | DTC144EK | SD INV. | |
| Q30~32 | 2SC2412K | | |
| Q33 | DTC144EK | SK LAMP ERRONEOUS LIGHTING PREVENTION SW | D type only |
| Q34 | DTA114EK | PWR ON 5V SW | |
| Q35 | DTC114EK | | |
| Q36 | DTA144EK | ACC DETECT | |
| Q37 | 2SB1370 | ILLUMINATION AVR | 10.4 V (Darlington) |
| Q38 | 2SC2412K | | |
| Q39 | DTA144EK | MANUAL RST | |
| Q40, 41 | DTC144EK | LOCAL INH. | |

K KRC-453 D/L/N

CIRCUIT DESCRIPTION

| Ref. No. | Components | Use/Function | Operation/Condition/Compatibility |
|----------|----------------|---------------------|---------------------------------------|
| Q42 | DTC144EK | TAPE MUTE INH. | |
| Q43 | DTC144EK | PACK IN INV. | |
| Q44 | DTC144EK | AUDIO MUTE INV. | |
| Q46 | 2SA1037K | Audio Mute Driver | ON in MUTE mode to drive Q19 and Q20. |
| Q47 | 2SA1037K | LOUD SW Driver | ON in LOUD mode to drive A17 and Q18. |
| Q48 | 2SA1037K | VOL BOOST SW Driver | |
| Q49 | DTC144EK | Mute SW | |
| Q51~53 | 2SC2412K | PLL L.P.F | FM/AM Vt LPF. |
| Q54 | 2SC2412K | | |
| Q55 | DTA144EK | MECHANISM MUTE SW | MUTE in FF, REW and PROG modes. |
| Q56 | DTC144EK | MOTOR Drive SW | |
| Q57 | 2SA1428 (O, Y) | MOTOR Driver | |

Terminal connections DAUGHTER UNIT (X89-128X-XX)

| Ref. No. | Components | Use/Function | Operation/Condition/Compatibility |
|----------|------------|----------------------|--|
| IC1 | TC74HC04AF | CD-CH I/O | Buffer for data communications with I/O box in CD-CH mode. |
| IC2 | NJM4565L-D | TONE CONTROL AMP | |
| Q1, 2 | DTC144EK | TAPE SIG. INH. | Signal inhibition and MUTE output in Tuner and CD-CH modes. |
| Q3 | DTC144EK | | |
| Q4~6 | 2SC2412K | ACC DETECT | Outputs early MUTE when ACC is lowered or during manual reset. Performs early grounding of μ -COM CE pin when ACC is switched OFF. |
| Q7 | DTC114EK | | |
| Q11 | DTC144EK | CD-CH REQ IN BUFF. | |
| Q12 | 2SC2412K | CD-CH CD CON BUFF. | |
| Q13 | DTC144EK | CD-CH REQ IN BUFF. | |
| Q14 | 2SA1037K | CD-CH REQ IN CONTROL | When ACC is ON, recognizes whether CD-CH is connected or not, and outputs signal to μ -COM. |

KRC-453 D/L/N

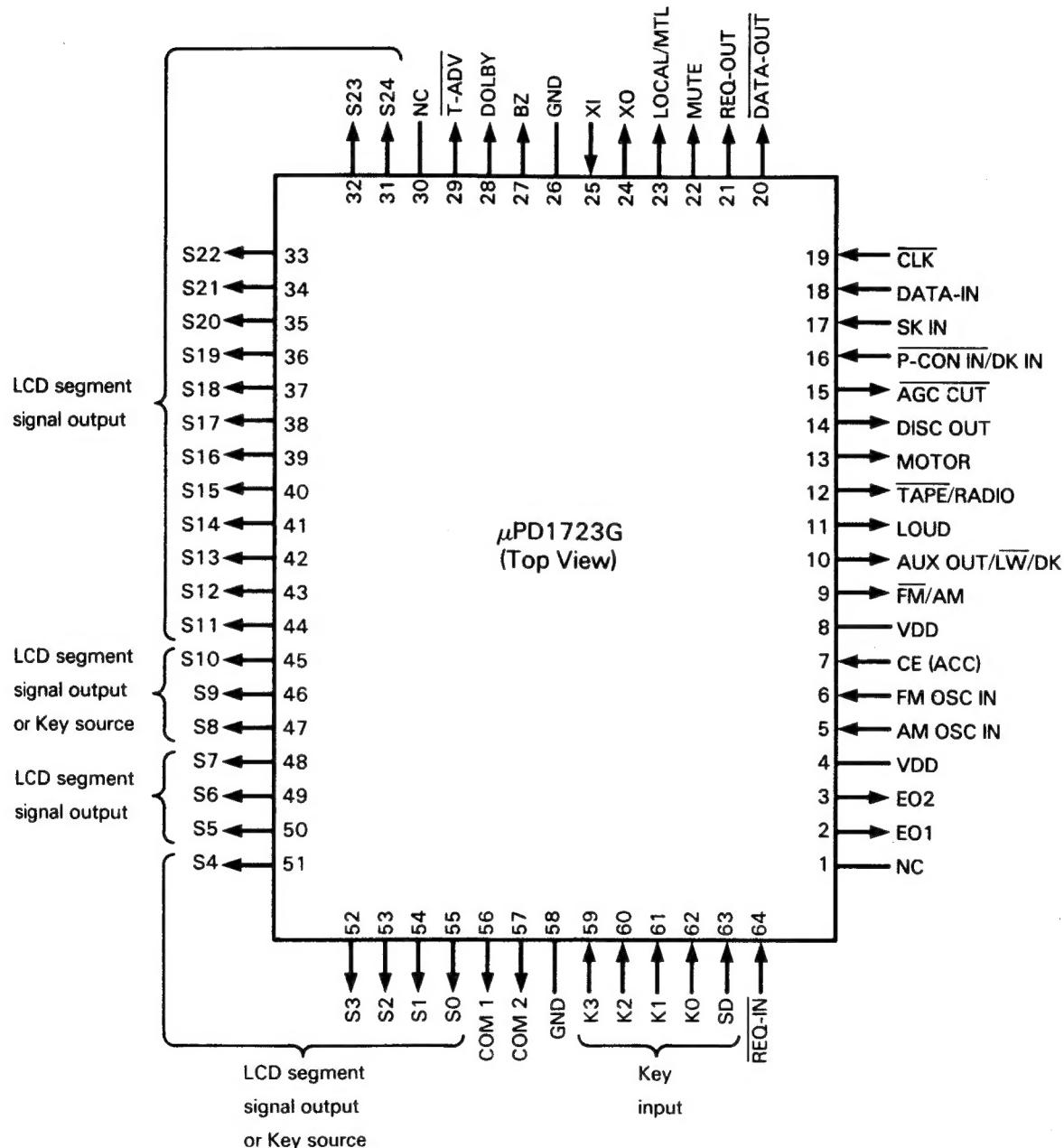
CIRCUIT DESCRIPTION

1723GF-593-3BE (IC12:X14-3472-70)

1723GF-594-3BE (IC12:X14-347X-XX)

Microprocessor IC

Terminal Connections



KRC-453 D/L/N

CIRCUIT DESCRIPTION

Terminal descriptions

| Pin No. | Pin Name | I/O | Function Name | Operation |
|---------|-----------------|-----|-----------------|--|
| 1 | NC | | NC | |
| 2 | EO1 | O | EO1 | |
| 3 | EO2 | O | EO2 | PLL error output terminals. If the frequency obtained by dividing the local oscillation frequency (VCO output) is higher than the reference frequency, these terminals output "H" level. If not, they output "L" level. |
| 4 | V _{DD} | | V _{DD} | Power input terminal. |
| 5 | V COL | I | AM OSC IN | Inputs VCO output from 0.50 to 30 MHz. |
| 6 | V COH | I | FM OSC IN | Inputs VCO output from 15 to 200 MHz. |
| 7 | CE | I | CE (ACC) | "H" level when it is required that the device operate normally. "L" level when the device is not used. |
| 8 | V _{DD} | | V _{DD} | Power input terminal. |
| 9 | PD1 | O | FM/AM | FM/AM switching port. Outputs "H" during AM reception. Outputs "L" during FM reception. Fixed at "H" in TAPE, CD and AUX (J type) modes, and "L" while SDK (SDK type) is ON. During tuner call, the output varies depending on the band. |
| 10 | PD2 | O | LW/DK | (E type) Outputs "L" during LW reception. Also outputs "L" during LW reception in course of tuner call. Outputs "H" in other cases. |
| | | | AUX OUT | (J type) Audio signal switching output port. Outputs "H" in CD-CH and AUX modes. |
| 11 | PD3 | O | LOUD | Loudness control ON/OFF output terminal. Switched to "H" or "L" when AUTO/LOUD key has been pressed for 2 sec. "H" → LOUD ON. |
| 12 | PC0 | O | TAPE/RADIO | TAPE audio switching port. Outputs "H" in CD-CH and AUX modes. |
| 13 | PC1 | O | MOTOR | Cassette mechanism motor ON/OFF control port. Outputs "H" while TAPE IN key is OFF. Outputs "L" in AUX, CD-CH and DK interrupt (SDK type) modes. |
| 14 | PC2 | O | DISC OUT | Outputs "H" when operating CD changer. Outputs "L" during DK interrupt (SDK type). |
| 15 | PC3 | O | AGC CUT | Normally, outputs "L" while CE is "H". Outputs "H" in AUX mode. |
| 16 | PA0 | I | DK IN | (SDK type) Input port for DK detection. Inputs "H" when DK signal is present. |
| | | | P-CON IN | (J-type) Input port for AUX input detection. "L" in AUX mode and "H" in other cases. |
| 17 | PA1 | I | SK IN | (SDK type) Input port for SK detection. Inputs "H" when SK signal is present. |
| 18 | PA2 | I | DATA-IN | Input terminal of DATA from CD-CH. |
| 19 | PA3 | I | CLK | Input terminal of CLK from CD-CH. |
| 20 | PB0 | O | DATA-OUT | Output terminal of DATA to CD-CH. |
| 21 | PB1 | O | REQ-OUT | Output terminal for requests to CD-CH. |
| 22 | PB2 | O | MUTE | MUTE output terminal, which outputs "H" in MUTE period. MUTE is not output while CE is "L". If CE turns from "H" to "L" during MUTE output, MUTE also turns from "H" to "L". |
| 23 | PB3 | O | LOCAL/MTL | LOCAL control output port in Tuner mode. Active "H". In TAPE mode, used as the METAL control output terminal which outputs "H" when METAL is ON. |
| 24 | XO | O | XO | X'tal connection terminals. |
| 25 | XI | I | XI | |
| 26 | GND | | GND | |
| 27 | CGP | O | BZ | Beep sound pulse output port. Outputs 2.0 kHz pulse for 60 ms. |
| 28 | PL3 | O | DOLBY | Dolby control output terminal. Outputs "H" when Dolby is ON. |
| 29 | PL2 | O | T-ADV | T-ADV control output terminal. Outputs "L" only when T-ADV and alternate SW FF/REW are ON in TAPE mode. |
| 30 | LCD25 | O | NC | Segment output terminals. |
| 31 | LCD24 | O | S24 | |
| 44 | LCD11 | | S11 | |

KRC-453 D/L/N

CIRCUIT DESCRIPTION

| Pin No. | Pin Name | I/O | Function Name | Operation |
|---------|------------|-----|---------------|--|
| 45 | LCD10/KS10 | O | S10 | Segment output and key source terminals. |
| 47 | LCD8/KS8 | | S8 | |
| 48 | LCD7 | O | S7 | Segment output terminals. |
| 50 | LCD5 | | S5 | |
| 51 | LCD4/KS4 | O | S4 | Segment output and key source terminals. |
| 55 | LCD0/KS0 | | S0 | |
| 56 | COM1 | O | COM1 | Common output terminals. |
| 57 | COM2 | O | COM2 | |
| 58 | GND | | GND | |
| 59 | K3 | I | K3 | Key input terminals. |
| 62 | K0 | | K0 | |
| 63 | AD | I | SD | Station detection input terminal. Inputs "H" when a station is detected. |
| 64 | INT | I | REQ-IN | Input terminal for requests from CD-CH. |

KRC-453 D/L/N

CIRCUIT DESCRIPTION

Key Matrix

(E type)

| | K0 (No. 62) | K1 (No. 61) | K2 (No. 60) | K3 (No. 59) |
|---------------|-------------|---------------|--------------|-------------|
| KS0 (No. 55) | DISC | SDK P-SEEK | DOWN/TRACK ⊖ | UP/TRACK ⊕ |
| KS1 (No. 54) | AUTO/LOUD | LOCAL/AME | AM/DISC ⊖ | FM/DISC ⊕ |
| KS2 (No. 53) | | | | |
| KS3 (No. 52) | 1/MTL | 2/TU-CALL | 3 | 4 |
| KS4 (No. 51) | 5/REP | 6/SKS | | |
| KS8 (No. 47) | TAPE IN | FWD/REV | FF/REW | ST |
| KS9 (No. 46) | | | | |
| KS10 (No. 45) | TAPE IN | | | |
| | BAND A | | | |

(J, K type)

| | K0 (No. 62) | K1 (No. 61) | K2 (No. 60) | K3 (No. 59) |
|---------------|-------------|---------------------------------|-----------------------|-------------|
| KS0 (No. 55) | DISC | CLK P-SCAN | DOWN/TRACK ⊖ | UP/TRACK ⊕ |
| KS1 (No. 54) | AUTO/LOUD | LOCAL/AME | AM/DISC ⊖ | FM/DISC ⊕ |
| KS2 (No. 53) | | | | |
| KS3 (No. 52) | 1/MTL | 2/T-ADV (TU-CALL)* ¹ | 3/DOLBY* ² | 4 |
| KS4 (No. 51) | 5/REP | 6 | | |
| KS8 (No. 47) | TAPE IN | FWD/REV | FF/REW | ST |
| KS9 (No. 46) | | | | |
| KS10 (No. 45) | TAPE IN | BAND B | | |
| | BAND A | | | |

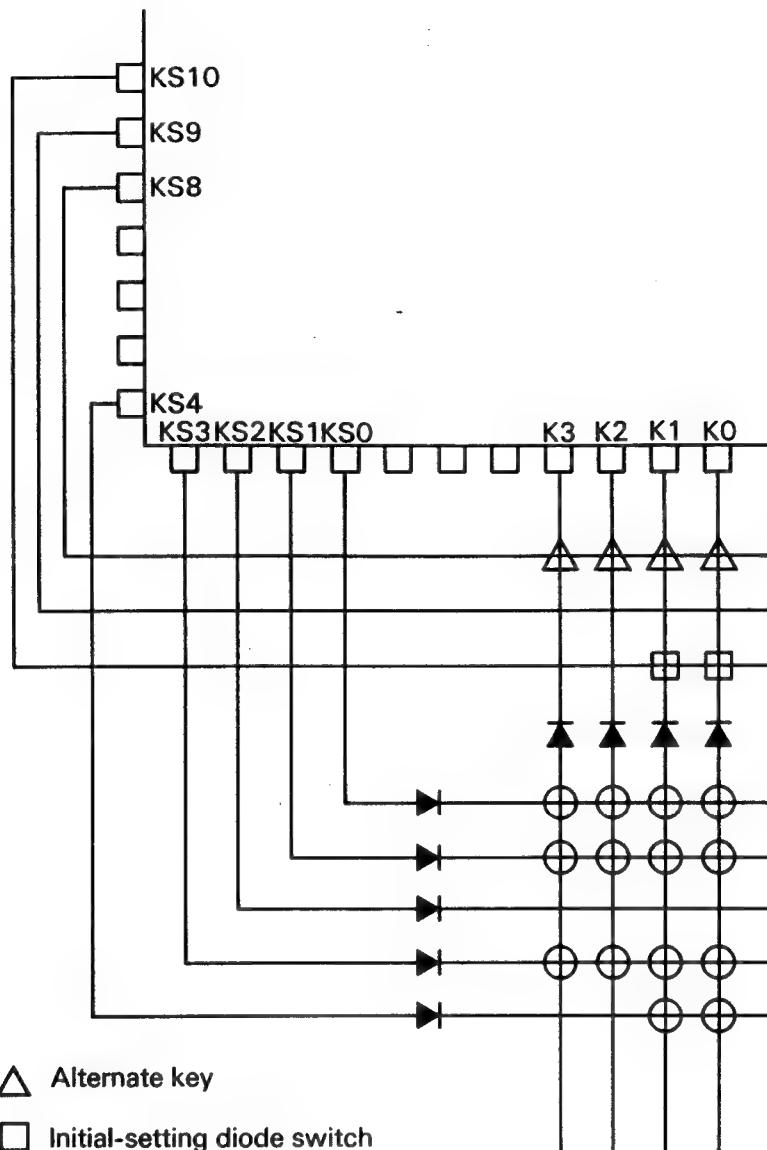
*1:J type — 2/T-ADV, KRC-540 —2

* 2:K type (KRC-540) —3

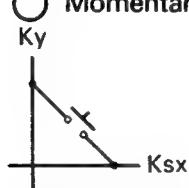
KRC-453 D/L/N

CIRCUIT DESCRIPTION

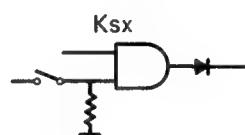
Key matrix configuration and model



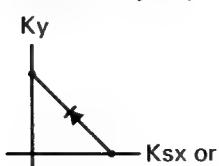
- △ Alternate key
- Initial-setting diode switch
- Momentary key



Momentary key



Alternate key



Initial-setting diode switch

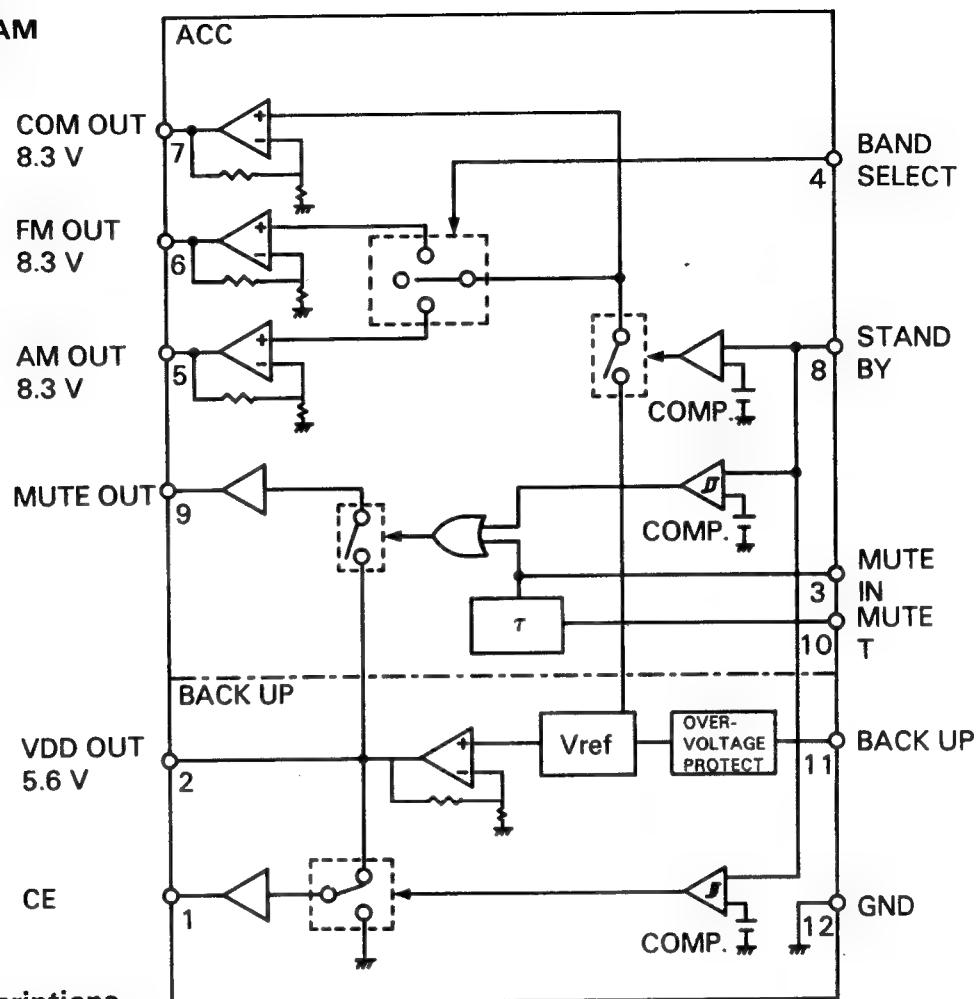
KRC-453 D/L/N

CIRCUIT DESCRIPTION

BA3906-V1 (IC11:X14-347X-XX)

Power Supply IC

BLOCK DIAGRAM



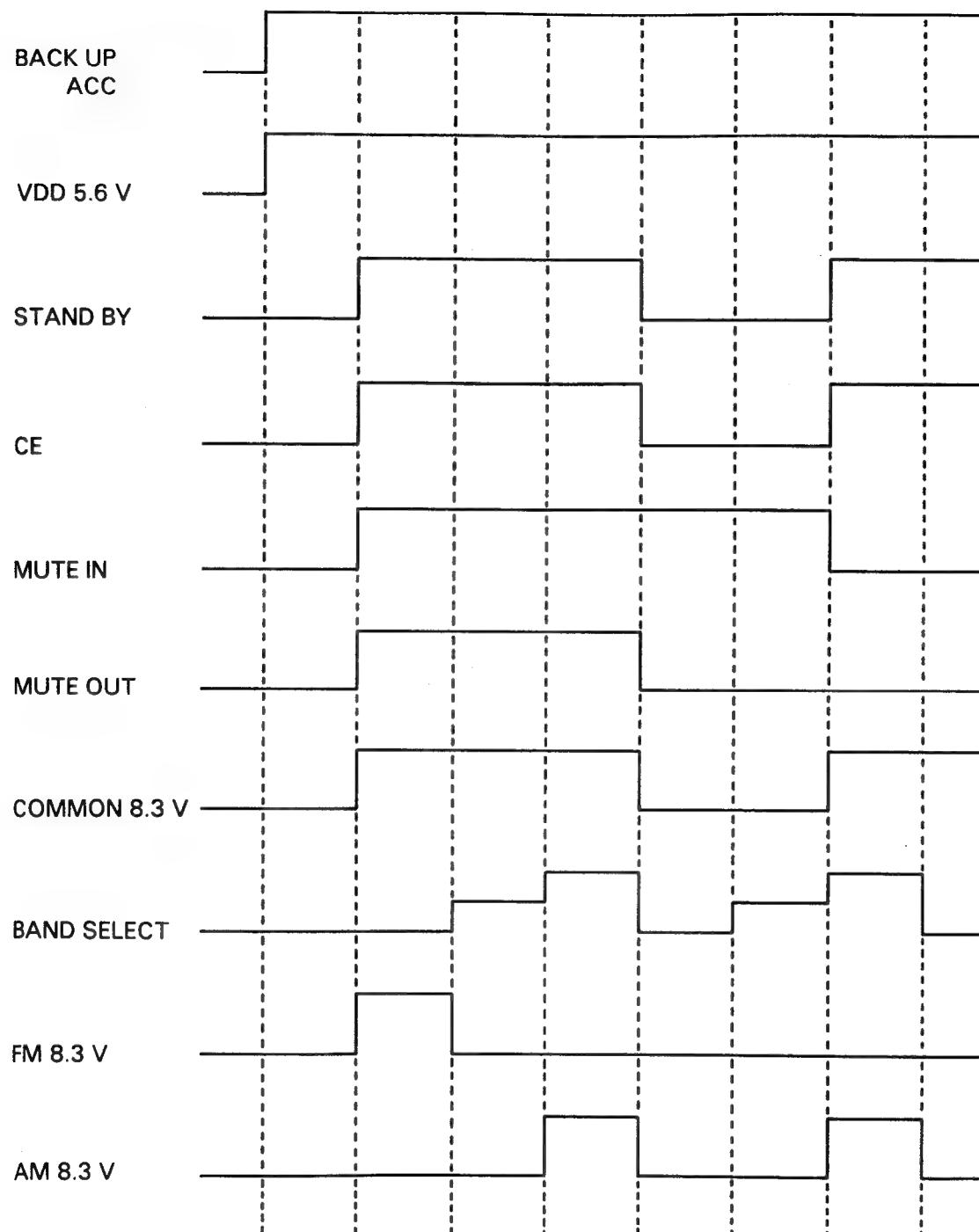
Terminal descriptions

| | | |
|----|-------------|--|
| 1 | CE | Outputs $0.82 \times V_{pp}$ or more when the μ -COM is to be operated normally, and outputs 0 V when it is not used. Holds 0 V even during stand-by. |
| 2 | V_{DD} | 5.6 V power supply with 60 mA max. output current. For use with μ -COM. Permanently outputs voltage provided that the backup power is connected. |
| 3 | MUTE IN | Input terminal for MUTE from μ -COM or other external sources. |
| 4 | BAND SELECT | AM/FM output selection input with 3-state input. 8.3 V power supply with 145 mA max. output current. For use in AM reception. |
| 5 | AM OUT | Outputs power when "H" is input to BAND SELECT terminal. |
| 6 | FM OUT | 8.3 V power supply with 250 mA max. output current. For use in FM reception. Outputs power when "L" is input to BAND SELECT terminals. |
| 7 | COM OUT | 8.3 V power supply with 125 mA max. output current. For use in tone control. The power can be used as the system common power for the volume/balance control, for the equalizer, in the cassette tape deck, and for the varicap in the electronic tuner. Power is output when STANDBY terminal is 6.5 V or more, regardless of the BAND SELECT terminal position. |
| 8 | STAND BY | 0 V for stand-by mode, in which signal is output only from V_{DD} terminal. The voltage at this terminal determines CE output and MUTE OUT output as well as AM OUT, FM OUT and COM OUT outputs. |
| 9 | MUTE OUT | MUTE transistor driver. |
| 10 | MUTE | Time constant terminal for MUTE IN. |
| 11 | BACK UP | Connected to backup power and ACC power of the vehicle. |
| 12 | GND | Input/output timing chart Ground. |

KRC-453 D/L/N

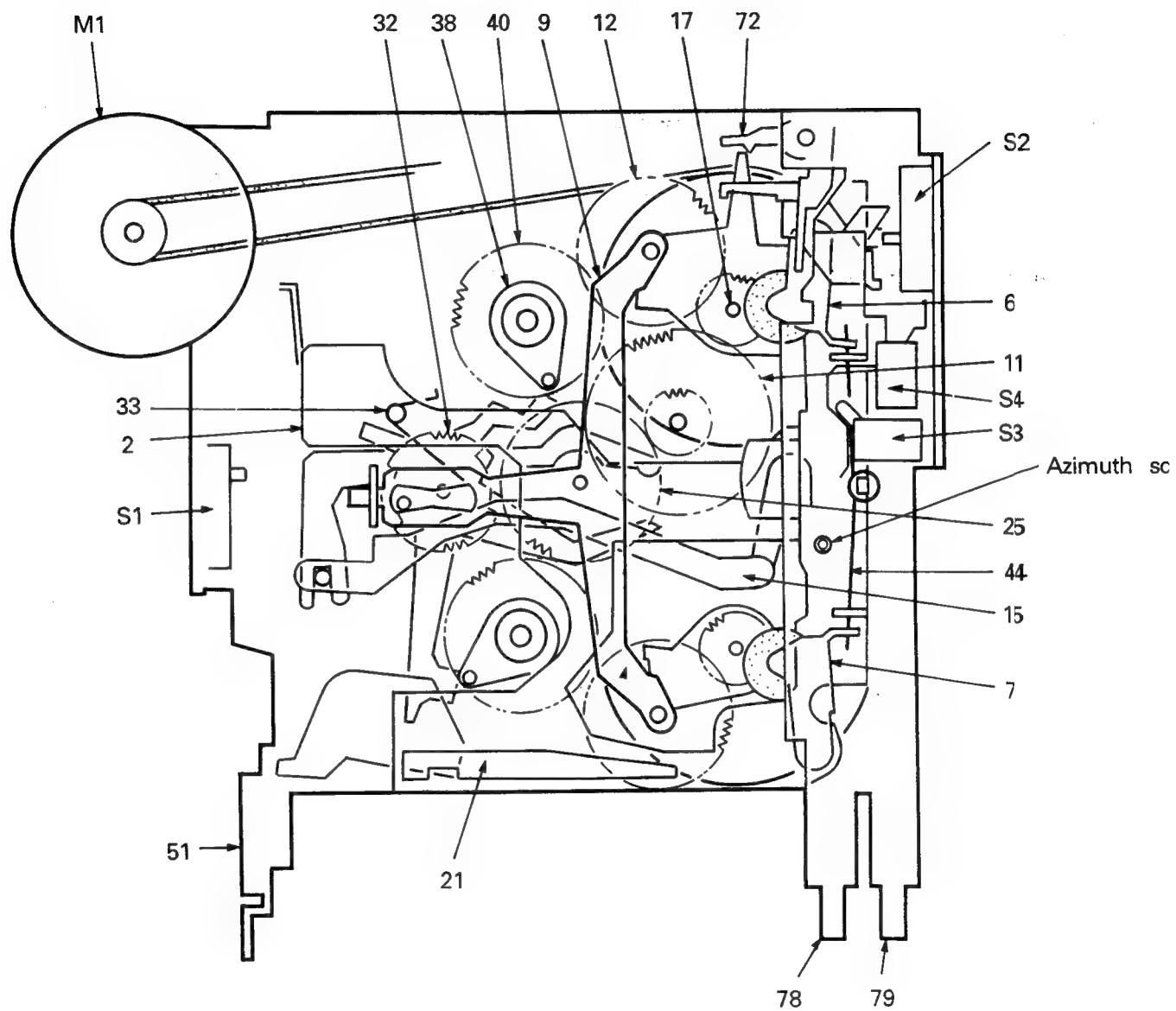
CIRCUIT DESCRIPTION

Input/Output timing chart 102



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MECHANISM OPERATION DESCRIPTION

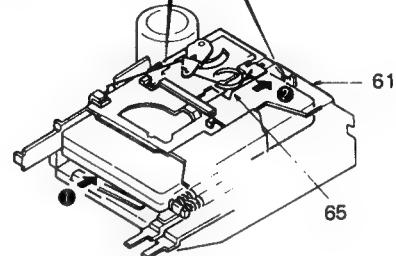
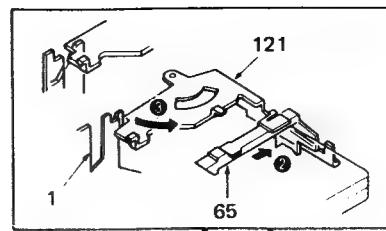


KRC-453 D/L/N

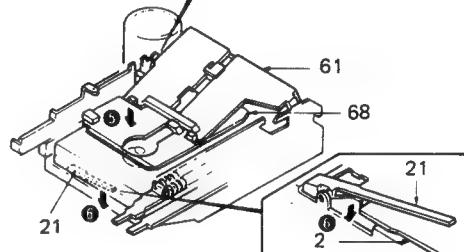
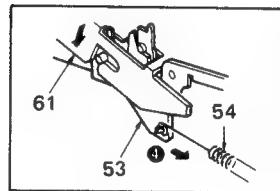
MECHANISM OPERATION DESCRIPTION

LOADING/PLAY

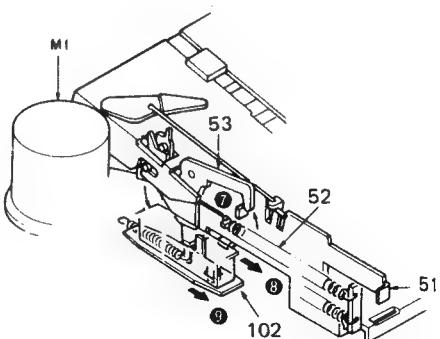
1. Insert a cassette tape (1).
2. The cassette guide (65) pushes to lever (reverse [121]) (2).
3. The lever (reverse [121]) turns in the direction of the arrow and releases the lock of the holder (action plate [61]) (3).



4. Through the lock release of the lever (reverse [121]), the arm (action [53]) is pulled by the tension spring (54), which turns the holder (action plate [61]). The holder (action plate) descends (4).
5. Through the descent of the holder (action plate [61]), the holder (cassette case [68]) also descends (5).
6. As the holder (cassette case [68]) descends, the cassette tape pushes the lever (lock plate [21]). The lever (lock plate [21]) then releases the lock of the lever assembly (head plate [2]) (6).



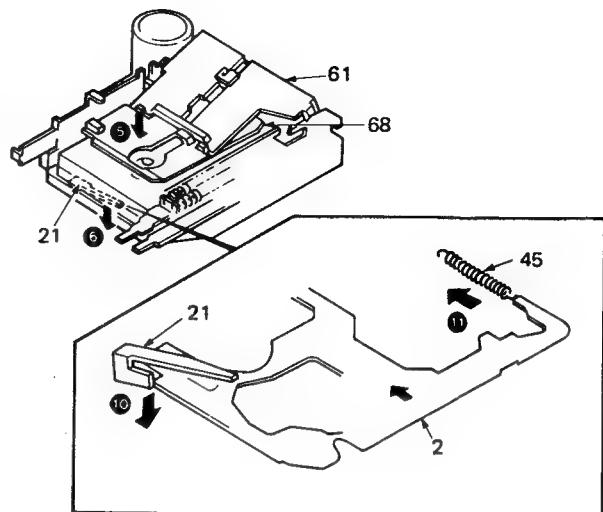
7. As the arm (action [53]) turns, the lock of the lever assembly (eject [51]) is released (7).
8. The lever assembly (eject [51]) is pulled by the tension spring (52) and moves forward (8).
9. Through the movement of the lever assembly (eject [51]), the lever (102) also moves forward and turns on the slide switch S1. As the slide switch S1 is turned on, electricity is supplied to the motor assembly (M1) (9).



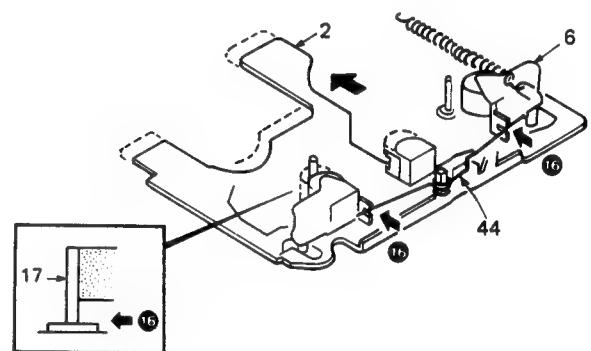
KRC-453 D/L/N

MECHANISM OPERATION DESCRIPTION

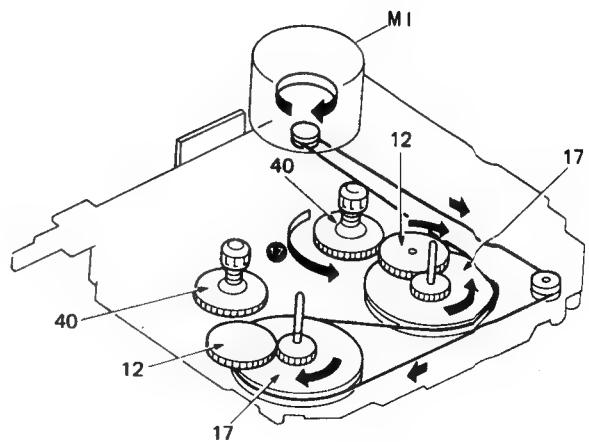
10. As the holder (cassette case [68]) descends, the cassette tape pushes the lever (lock plate [21]) then releases the lock of the lever assembly (head plate [2]) (10).
11. The lever assembly (head plate [2]) is pulled by the tension spring (45) and moves forward (11).



12. Through the forward movement of the lever assembly (head plate [2]), pinch roller assembly (6) make close contact with the shaft of the flywheel (17) through the formed wire spring (44) (16).



13. The rotation is transmitted from each gear (17-12) to the reel base (40) of the take-up side (17).

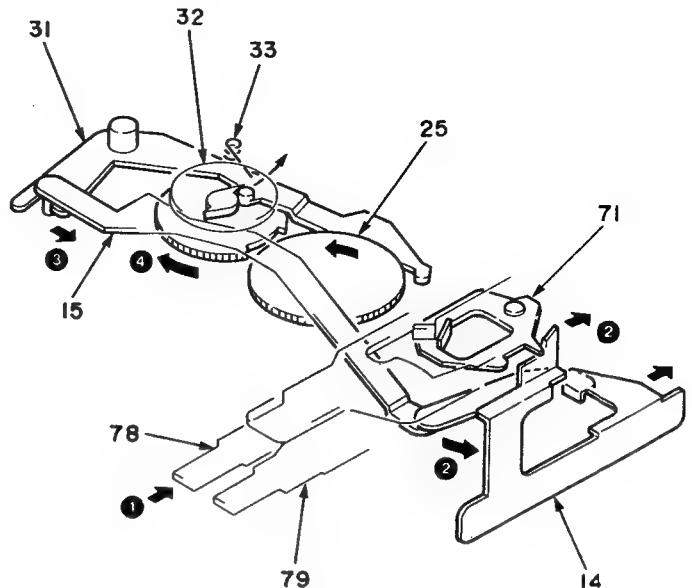


KRC-453 D/L/N

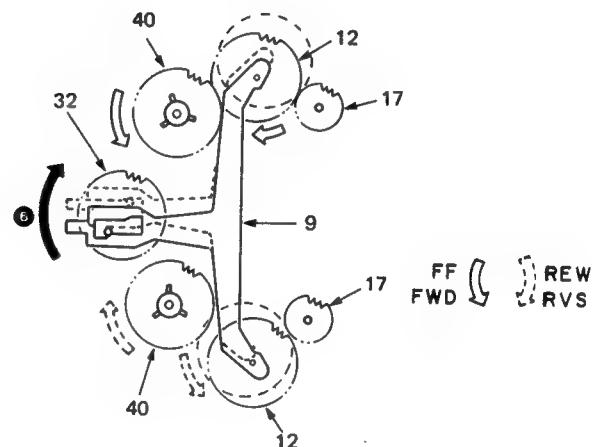
MECHANISM OPERATION DESCRIPTION

PROGRAM

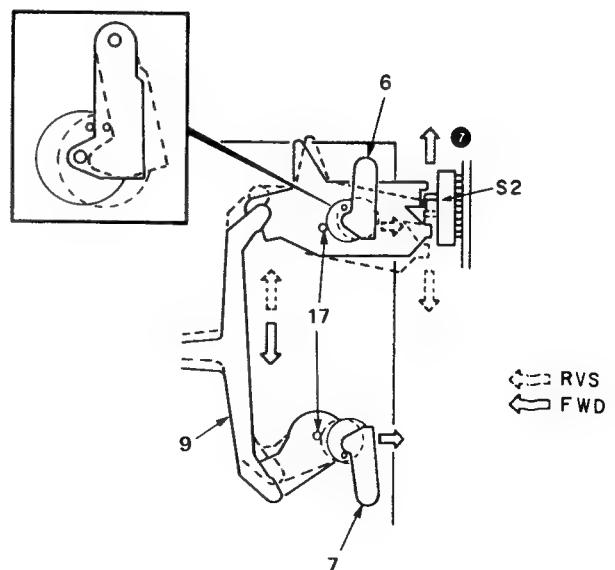
1. Push the FF and REW levers simultaneously (1).
2. The arm assembly (15) moves toward the right (2).
3. The lever (31) is pulled (3), and the changeover gear (32) is unlocked.
4. The changeover gear is pushed by the torsion spring (33), and engaged with the cam gear (25) (4).
5. The changeover gear (32) is rotated by a half turn and locked with the lever (31) again.



6. The movement of the boss of the changeover gear (32) moves the changeover arm (9) (6).



7. When the changeover arm (9) moves, the drive direction of the reel base (40), head switch (S2) and pinch roller is switched between FWD and RVS (7).

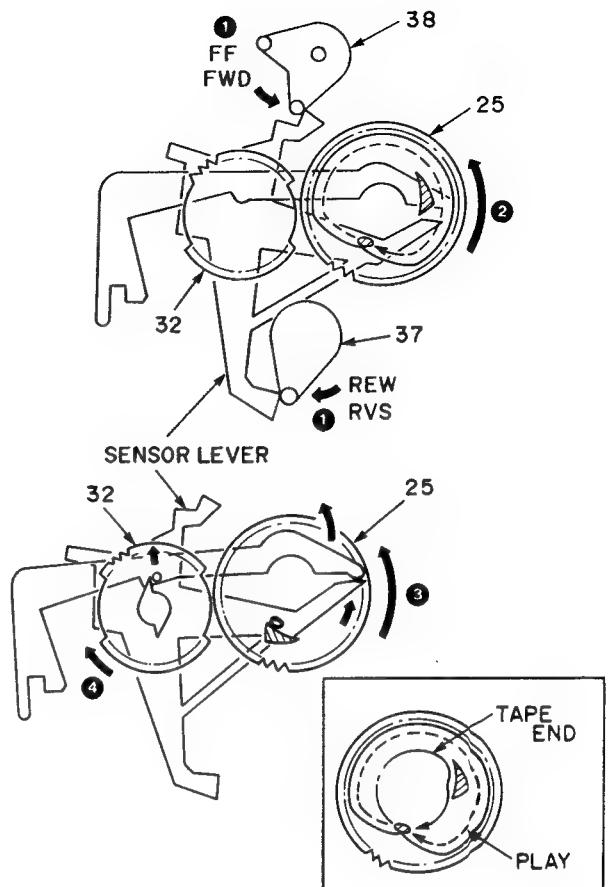


KRC-453 D/L/N

MECHANISM OPERATION DESCRIPTION

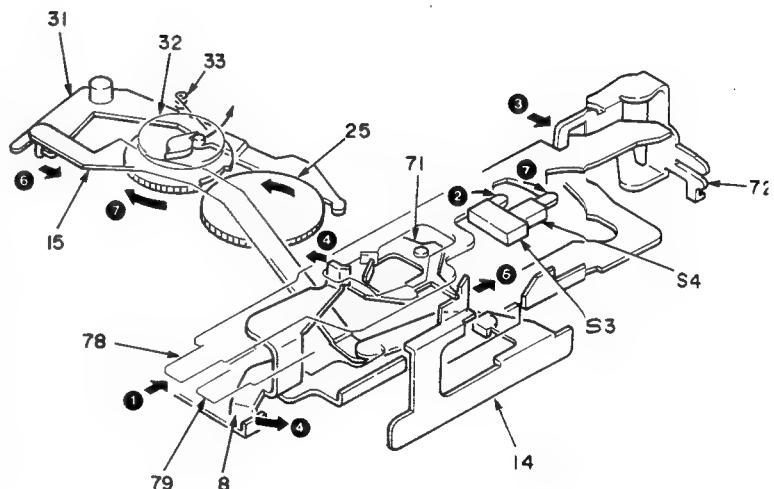
AUTO REVERSE

1. When the reel base (40) stops rotation at the end of tape, the arm (38) stops pushing the sensor lever (1).
2. The sensor lever is engaged with the cam projection of the cam gear (25) and carried until the intermediate point of the cam gear (2).
3. Then, the sensor lever is carried by the triangular boss of the cam gear (25) and pushes the lock lever (3).
4. When the lock lever is pushed, the changeover gear rotates and the program operation starts (4).



REW

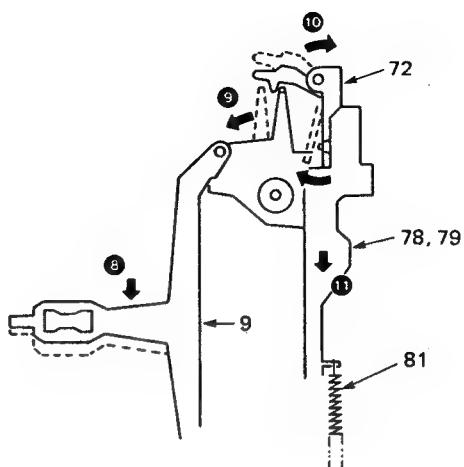
1. Push the lever REW (78) (1).
2. Pushing the lever REW (78) closes the leaf switch (S3) and muting is applied (2).
3. The lever REW (78) is locked by the arm (72) (3).
4. By pushing the lever REW (78), the lever (8) is pushed in the direction of arrow (4).
5. Through being pushed, the lever (8) moves the lever assembly (head plate [2]) backward a little (5). Through the backward movement of the lever assembly, the playback head (HD1) and pinch roller (7) also moves backward a little.
6. This time, the lever REW (78) moves the arm assembly (15) and PROGRAM operation is engaged (6).
7. The rotation of the reel base (40) is high-speeded by the speed selector switch (S4) (7).



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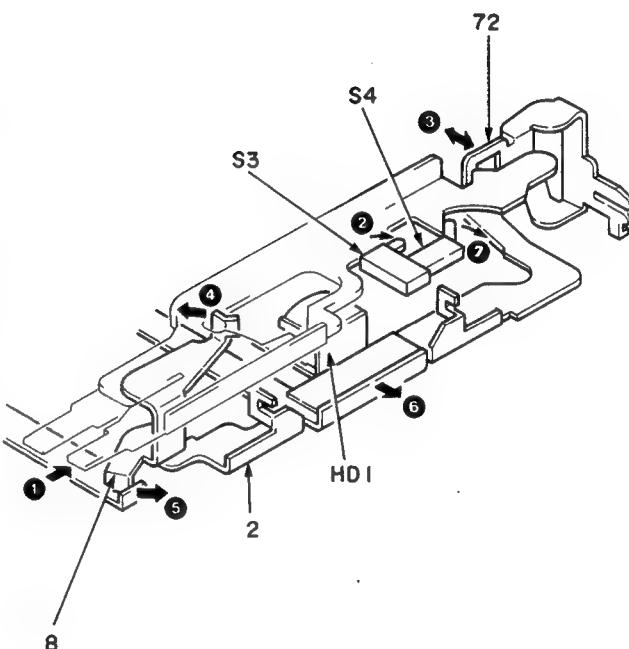
MECHANISM OPERATION DESCRIPTION

8. At the tape end during the operation of REW, the end sensor is activated, and the changeover arm (9) moves the arm (72) during the operation of PROGRAM (8) (9) (10). The lever REW (78) is released (11).
9. To release REW, slightly depress the lever FF (79).
10. By depressing the lever FF (79), the arm (72) moves, and the lever REW (78) returns by the tension spring (81) (11).



FF

1. Push the lever FF (79) (1).
2. Pushing the lever FF (79) closes the leaf switch (S3) and muting is applied (2).
3. The lever FF (79) is locked by the arm (72) (3).
4. By pushing the lever FF (79), the lever (8) is pushed in the direction of arrow (4).
5. Through being pushed, the lever (8) moves the lever assembly (head plate [2]) backward a little (5). The playback head (HD1) and pinch roller also moves backward a little.
6. The rotation of the reel base (40) is high-speeded by the speed selector switch (S4) (6).

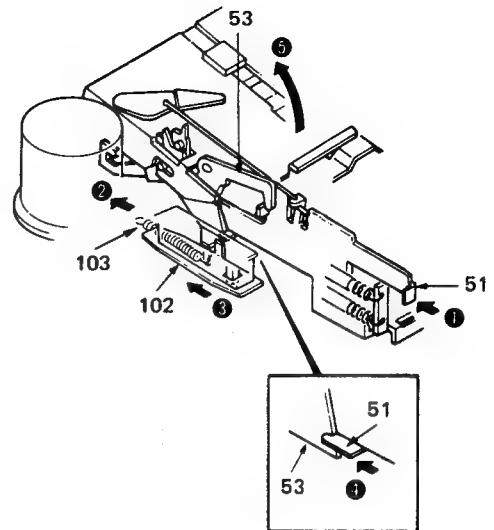


KRC-453 D/L/N

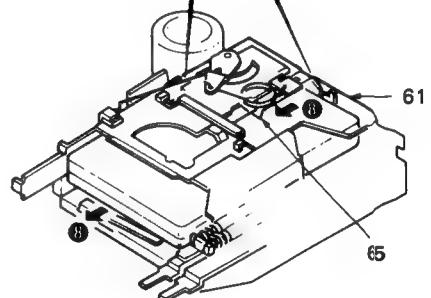
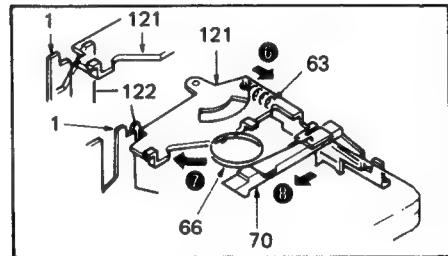
MECHANISM OPERATION DESCRIPTION

EJECT

1. Push the lever assembly (eject [51]) (1).
2. By pushing the lever assembly (eject [51]), the tension spring (103) pushes the lever (102) (2).
3. Though pushing the lever (102), the slide switch (S1) is turned off, and the lever assembly (head plate [2]) moves backward (3).
4. The lever assembly (eject [51]) pushes and turns the arm (action [53]) (4).
5. By turning, the arm (action [53]) pushes up the holder (action plate [61]) (5).



6. When the holder (action plate [61]) is pushed up, the lever (reverse [121]) is pulled by the tension spring (63) and turns (6).
7. In turning, the lever (reverse [121]) is put on the lever of the mechanism chassis (122) (7).
8. The cassette guide (65) is pushed forward by the torsion coil spring (66), and the cassette tape is ejected (8).



ADJUSTMENT

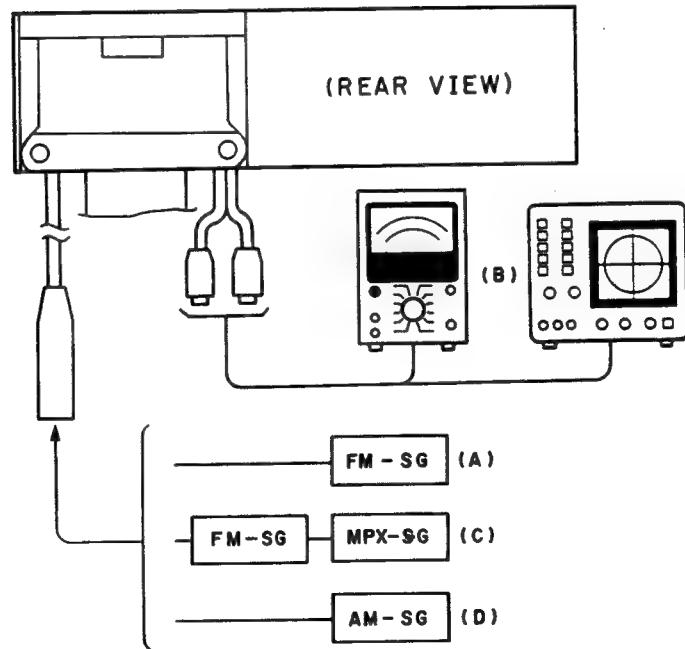
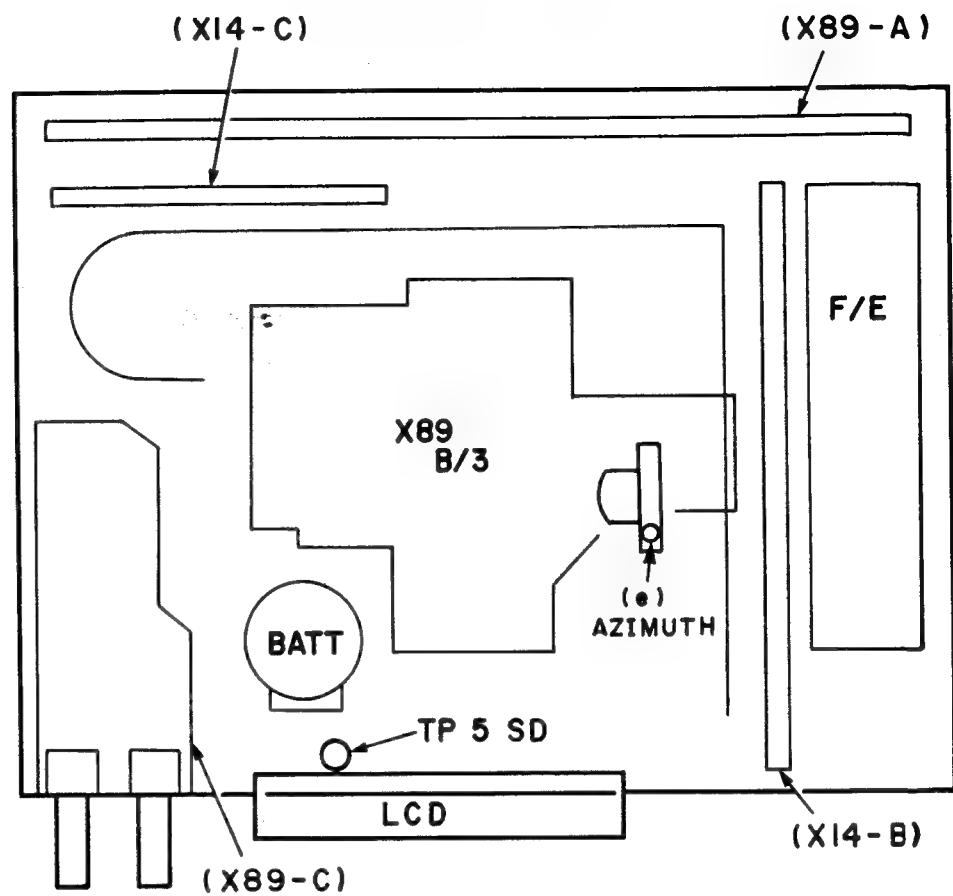
Set the controls and switches as follows.

| | | | | | |
|---------|------------------|----------|------|-------|------|
| BALANCE | :center position | LOUD | :OFF | LOCAL | :OFF |
| FADER | :center position | T·ADV | :OFF | AUTO | :OFF |
| BASS | :center position | METAL | :OFF | | |
| TREBLE | :center position | DOLBY NR | :OFF | | |

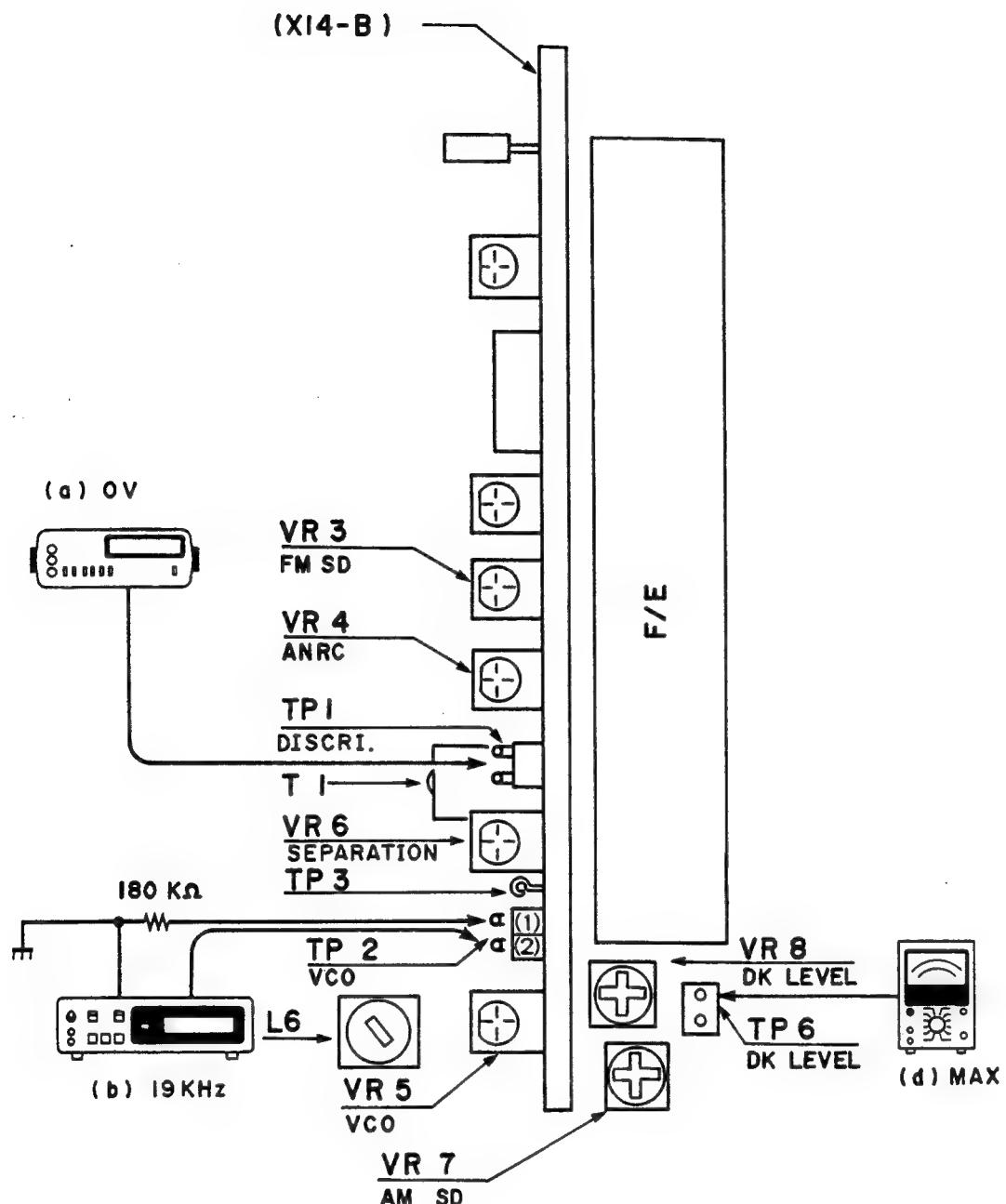
| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | TUNER(RECEIVER) SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|------------------------------------|-----------------------|---|---|--|--------------------------|--|------|
| FM SECTION | | | | | | | |
| 1 | DISCRIMINATOR | (A) 98.1MHz 0 dev 60dB μ (ANT input) | Connect the DC voltmeter between pins of TP1(X14 B/3) | FM 98.1MHz | T1 (X14 B/3) | 0V | (a) |
| 2 | VCO | (A) 98.1MHz 0 dev 60dB μ (ANT input) | Connect a frequency counter to TP2(2) and GND | FM 98.1MHz Connect a R(180K Ω) between TP2(1) and GND | VR5 (X14 B/3) | 19KHz | (b) |
| 3 | SEPARATION | (C) 98.1MHz 1kHz, \pm 40kHz dev Pilot: \pm 7.5kHz dev Selector:L or R 60dB μ (ANT input) | (B) | FM 98.1MHz | VR6 (X14 B/3) | Adjust it so that the crosstalk from L to R and R to L become minimum. | |
| 4 | ANRC | (C) 98.1MHz 1kHz, \pm 40kHz dev Pilot: \pm 7.5kHz dev Selector:L or R 35dB μ (ANT input) | (B) | FM 98.1MHz Connect a lead wire between TP3 and GND | VR4 (X14 B/3) | Separation 10dB | |
| 5 | SEEK STOP LEVEL | (A) 98.1MHz 1kHz, \pm 40kHz dev 20dB μ (ANT input) | Connect the DC voltmeter to TP5(X14 A/3) | FM SEEK:ON 98.1MHz | VR3 (X14 B/3) | Low \rightarrow High(Voltage) (Seek stop) | (c) |
| SDK SECTION (KRC-453D Only) | | | | | | | |
| 6 | DK LEVEL | (E) 98.1MHz 0 mod SK 5.33% DK 30% BK 60% 60dB μ (ANT input) | Connect a AC voltmeter to TP6(X14 A/3) | FM 98.1MHz SDK:OFF | L6 VR8 (X14 A/3) | Maximum | (d) |
| MW SECTION | | | | | | | |
| (1) | SEEK STOP LEVEL | (D) 999kHz 400Hz, 30% mod 35dB μ (ANT input) | Connect the DC voltmeter to TP5(X14 A/3) | MW 999kHz | VR7 (X14 A/3) | Low \rightarrow High(Voltage) (Seek stop) | |
| CASSETTE DECK SECTION | | | | | | | |
| [1] | AZIMUTH | MTT-114 10kHz | (B) | TAPE PLAY | Head Azimuth Screw | Adjust the azimuth for each L CH/R CH or FWD/RVS becomes maximum. | (e) |

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ADJUSTMENT

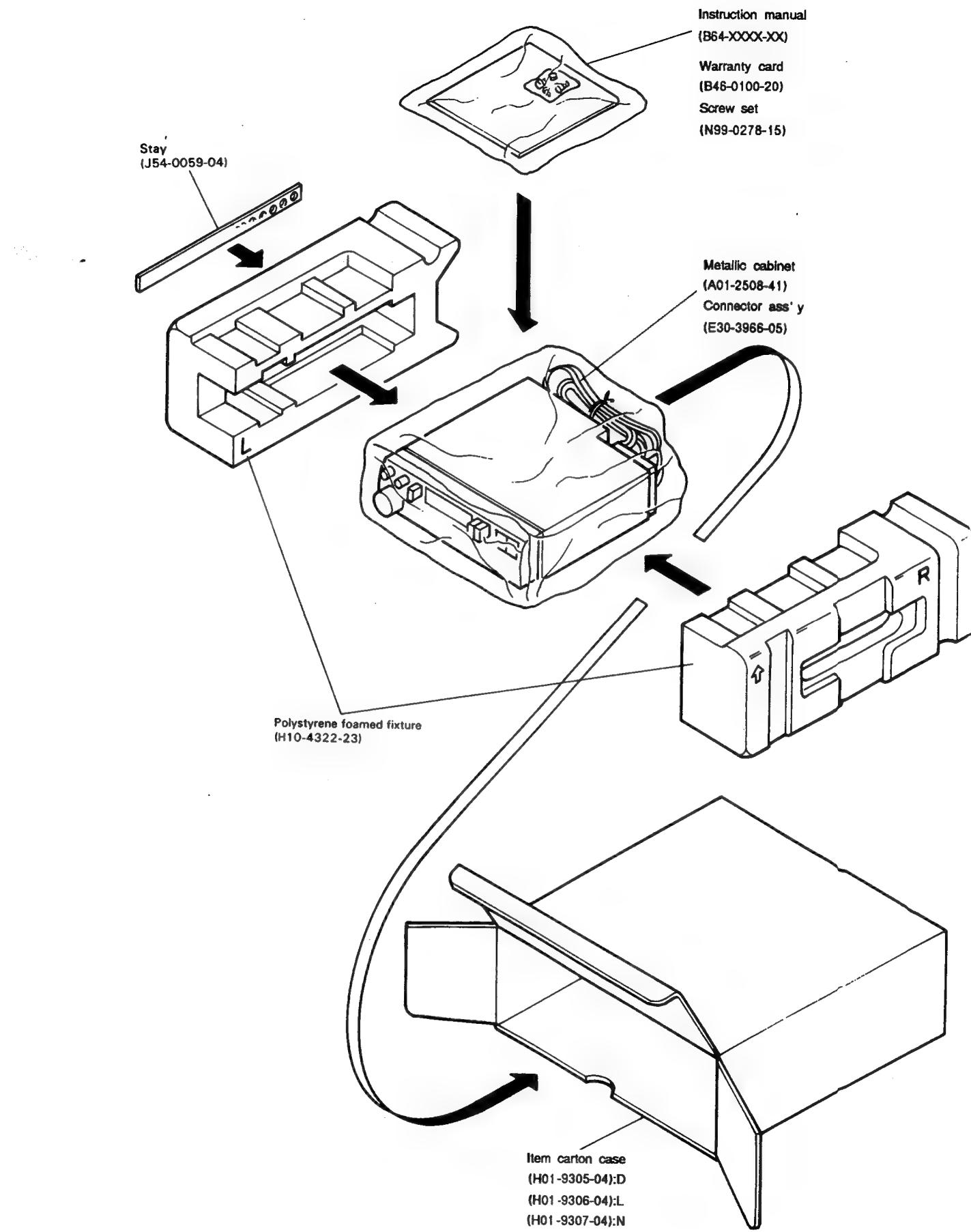


ADJUSTMENT

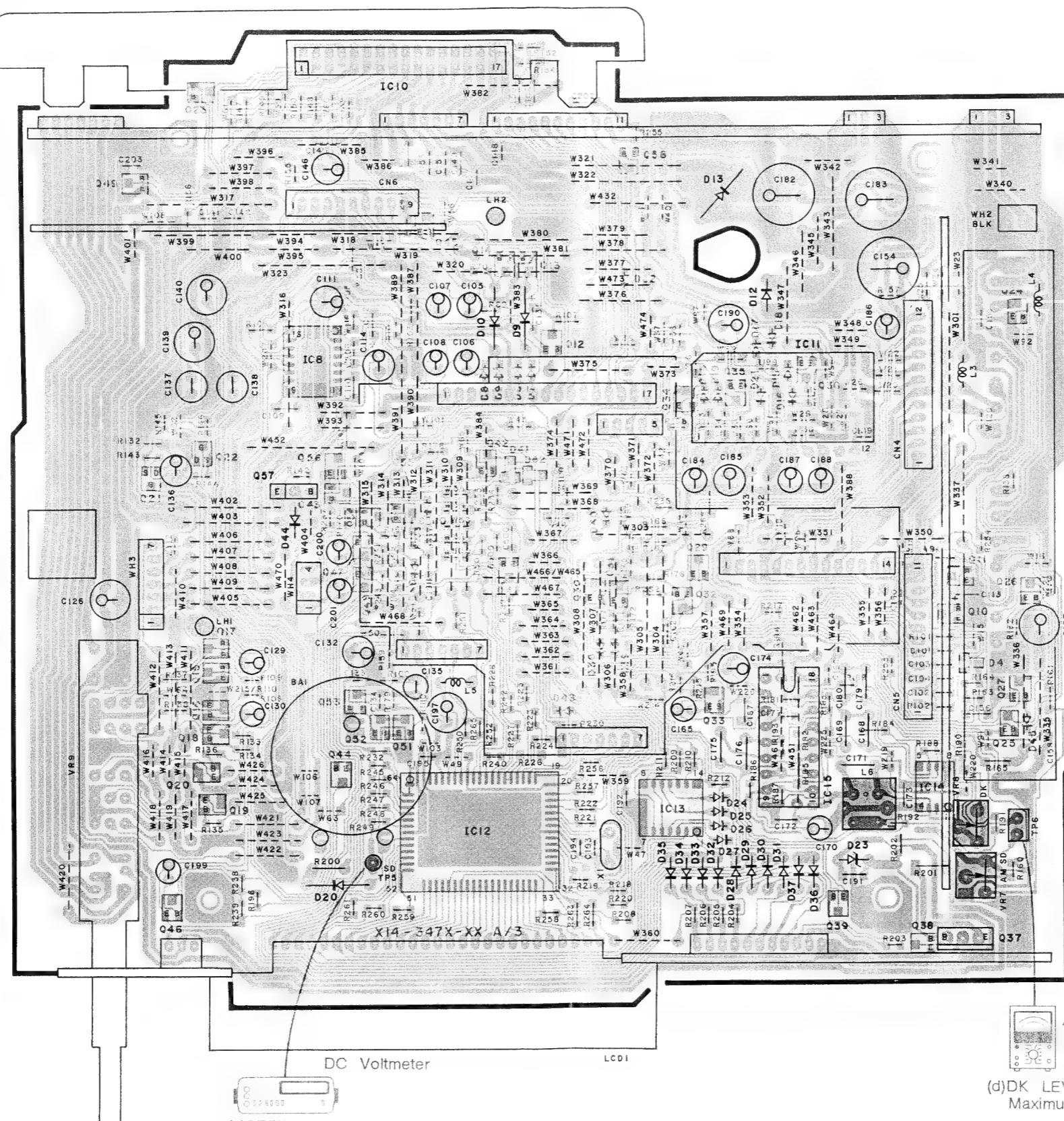
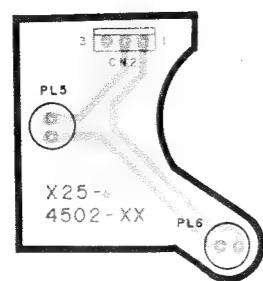
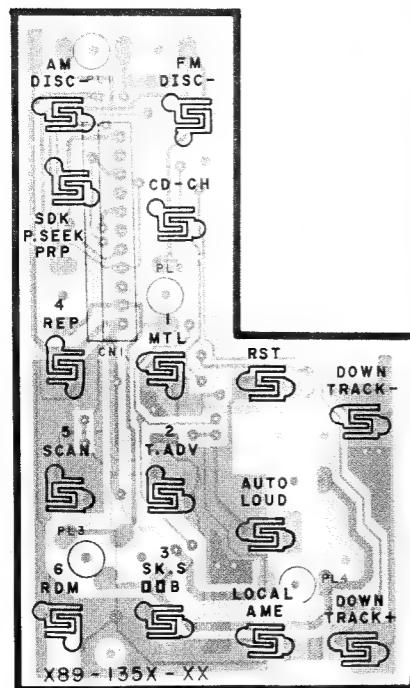
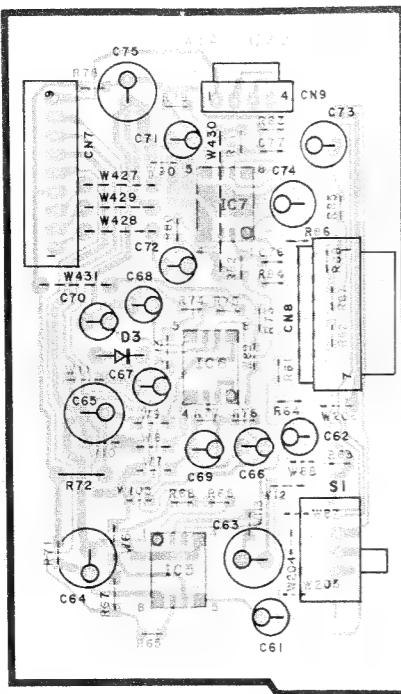


KRC-453 D/L/N

PACKING



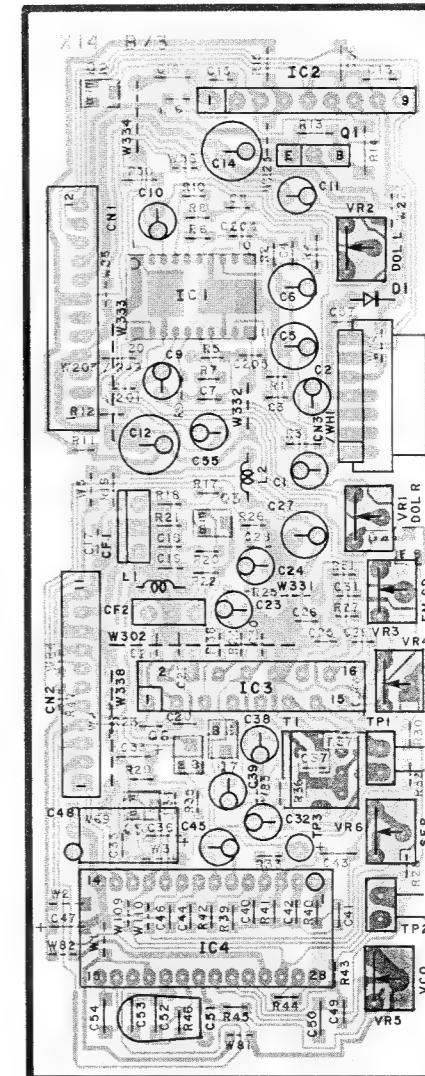
PC BOARD (Component side view)



(c) SEEK STOP LEVEL:
Low→High(Voltage)
seek stop.

(d) DK LEVEL:
Maximum

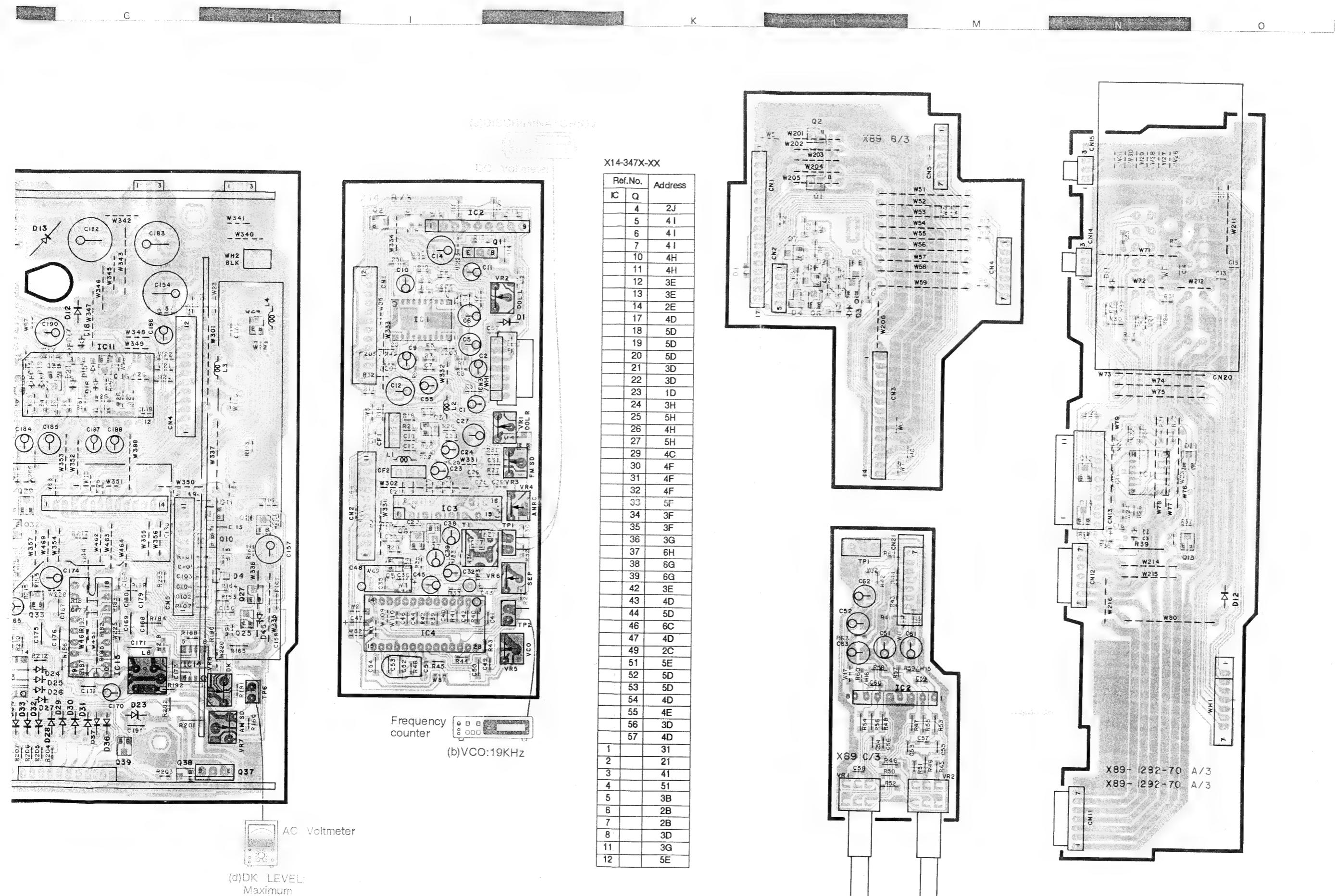
Frequency counter (b)VCO:19KHz



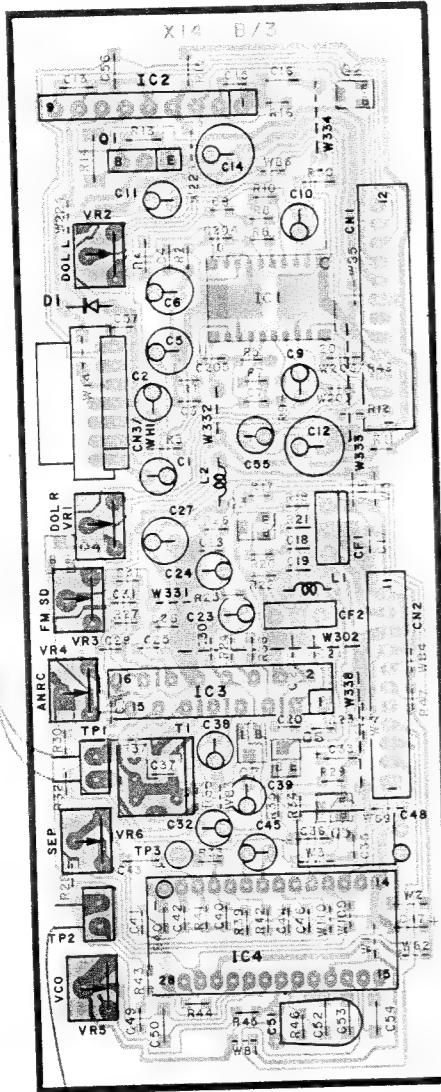
DC Voltmeter

DC Voltmeter

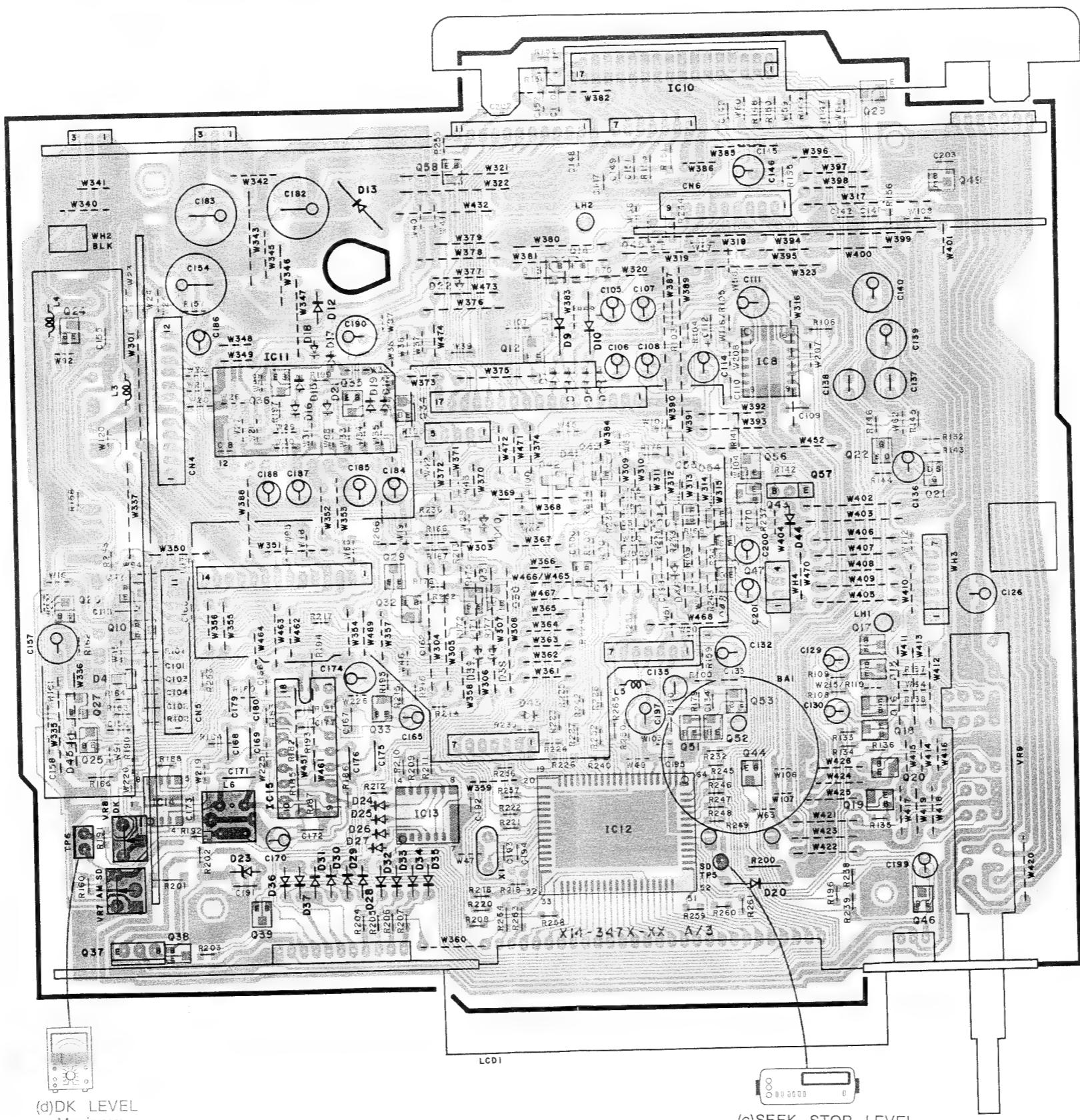
| Ref.No. | | Address |
|---------|----|---------|
| IC | Q | |
| | 4 | 2J |
| | 5 | 4I |
| | 6 | 4I |
| | 7 | 4I |
| | 10 | 4H |
| | 11 | 4H |
| | 12 | 3E |
| | 13 | 3E |
| | 14 | 2E |
| | 17 | 4D |
| | 18 | 5D |
| | 19 | 5D |
| | 20 | 5D |
| | 21 | 3D |
| | 22 | 3D |
| | 23 | 1D |
| | 24 | 3H |
| | 25 | 5H |
| | 26 | 4H |
| | 27 | 5H |
| | 29 | 4C |
| | 30 | 4F |
| | 31 | 4F |
| | 32 | 4F |
| | 33 | 5F |
| | 34 | 3F |
| | 35 | 3F |
| | 36 | 3G |
| | 37 | 6H |
| | 38 | 6G |
| | 39 | 6G |
| | 42 | 3E |
| | 43 | 4D |
| | 44 | 5D |
| | 46 | 6C |
| | 47 | 4D |
| | 49 | 2C |
| | 51 | 5E |
| | 52 | 5D |
| | 53 | 5D |
| | 54 | 4D |
| | 55 | 4E |
| | 56 | 3D |
| | 57 | 4D |
| 1 | | 31 |
| 2 | | 21 |
| 3 | | 41 |
| 4 | | 51 |
| 5 | | 3B |
| 6 | | 2B |
| 7 | | 2B |
| 8 | | 3D |
| 11 | | 3G |
| 12 | | 5E |



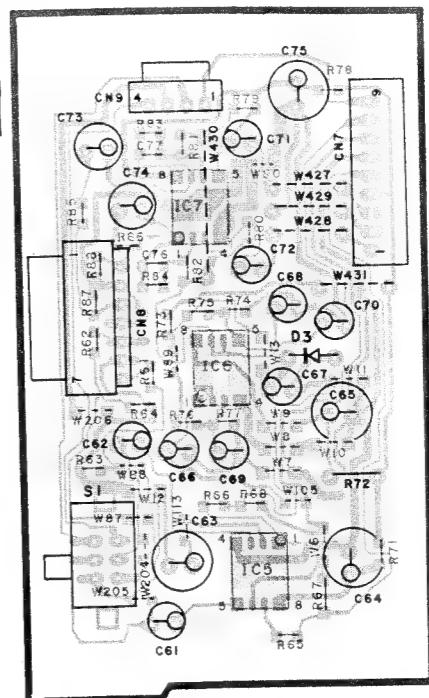
PC BOARD (Foil side view)



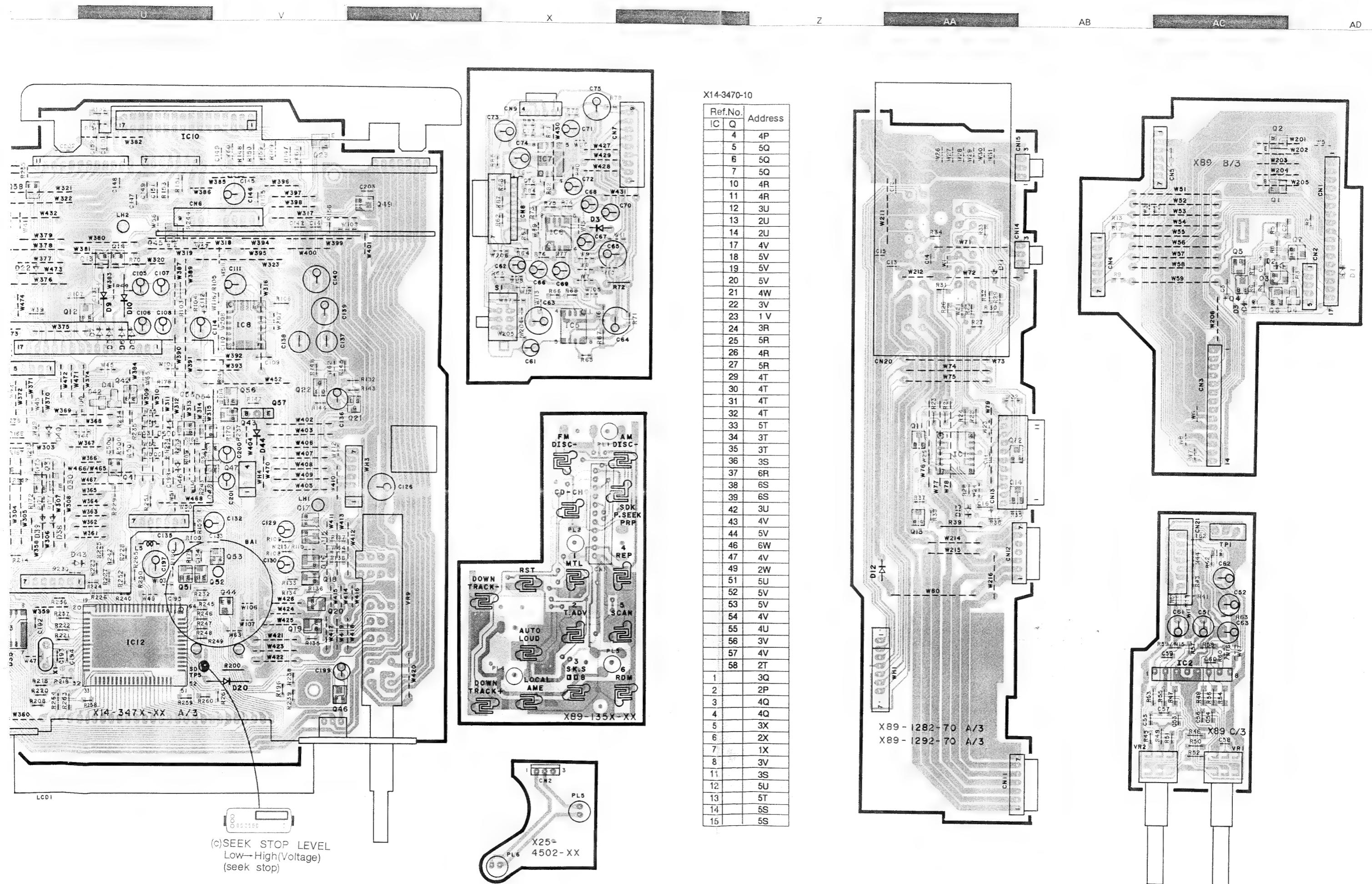
(b)VCO:19KHz

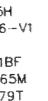


(c) SEEK STOP LEVEL
Low→High(Voltage)
(seek stop)



| | | |
|----------|----|---------|
| Ref. No. | | Address |
| I.C. | Q | |
| | 4 | 4P |
| | 5 | 5Q |
| | 6 | 5Q |
| | 7 | 5Q |
| | 10 | 4R |
| | 11 | 4R |
| | 12 | 3U |
| | 13 | 2U |
| | 14 | 2U |
| | 17 | 4V |
| | 18 | 5V |
| | 19 | 5V |
| | 20 | 5V |
| | 21 | 4W |
| | 22 | 3V |
| | 23 | 1V |
| | 24 | 3R |
| | 25 | 5R |
| | 26 | 4R |
| | 27 | 5R |
| | 29 | 4T |
| | 30 | 4T |
| | 31 | 4T |
| | 32 | 4T |
| | 33 | 5T |
| | 34 | 3T |
| | 35 | 3T |
| | 36 | 3S |
| | 37 | 6R |
| | 38 | 6S |
| | 39 | 6S |
| | 42 | 3U |
| | 43 | 4V |
| | 44 | 5V |
| | 46 | 6W |
| | 47 | 4V |
| | 49 | 2W |
| | 51 | 5U |
| | 52 | 5V |
| | 53 | 5V |
| | 54 | 4V |
| | 55 | 4U |
| | 56 | 3V |
| | 57 | 4V |
| | 58 | 2T |
| 1 | | 3Q |
| 2 | | 2P |
| 3 | | 4Q |
| 4 | | 4Q |
| 5 | | 3X |
| 6 | | 2X |
| 7 | | 1X |
| 8 | | 3V |
| 11 | | 3S |
| 12 | | 5U |
| 13 | | 5T |
| 14 | | 5S |
| 15 | | 5S |

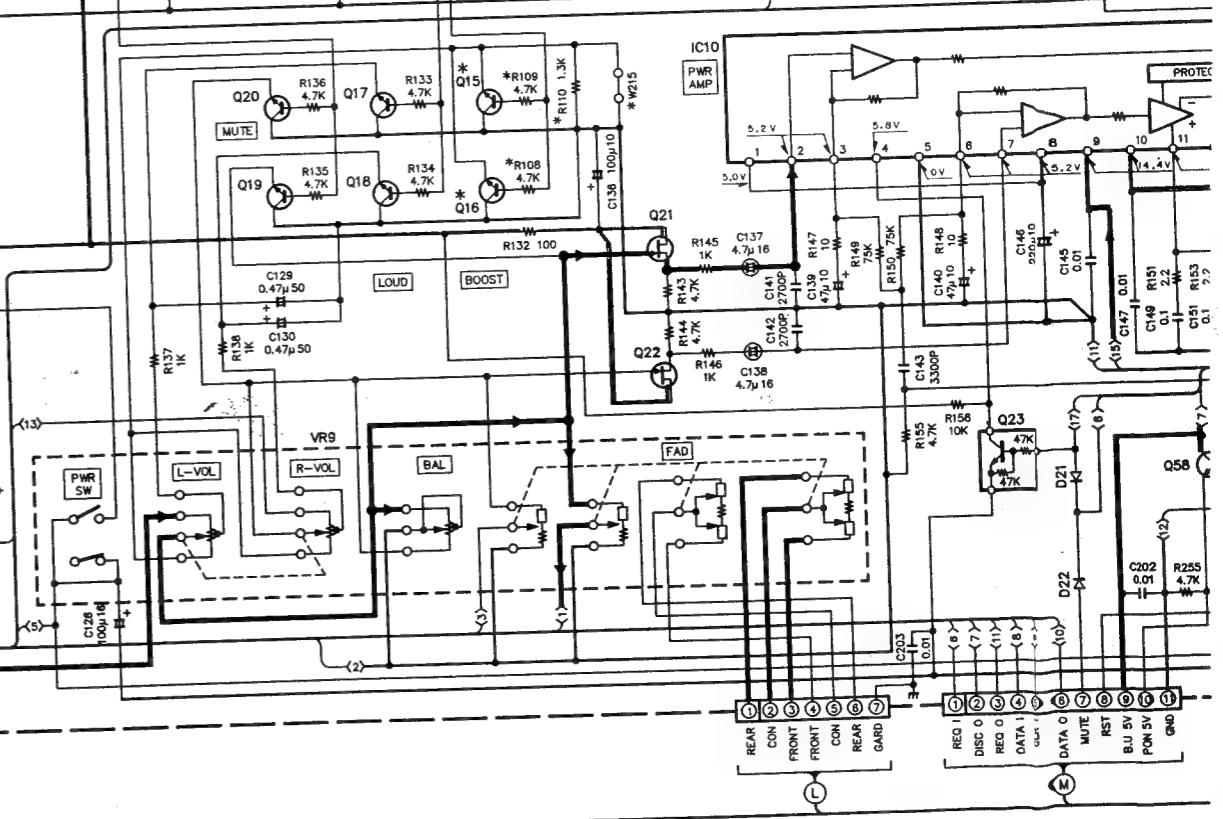
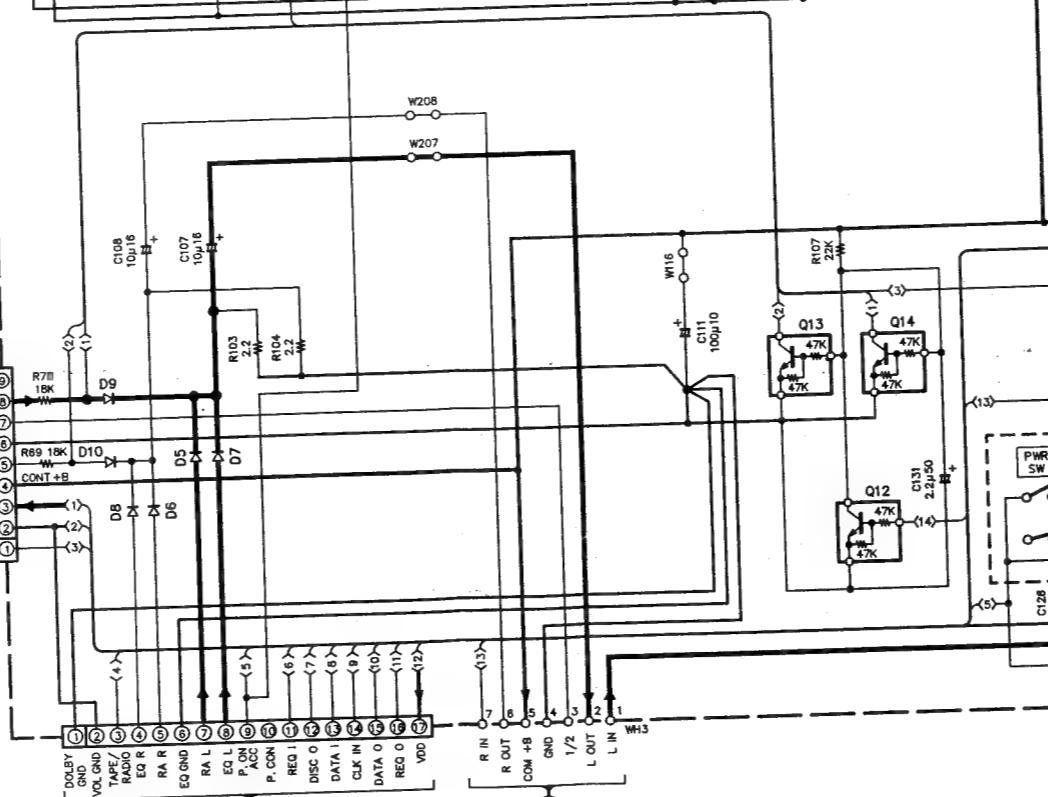
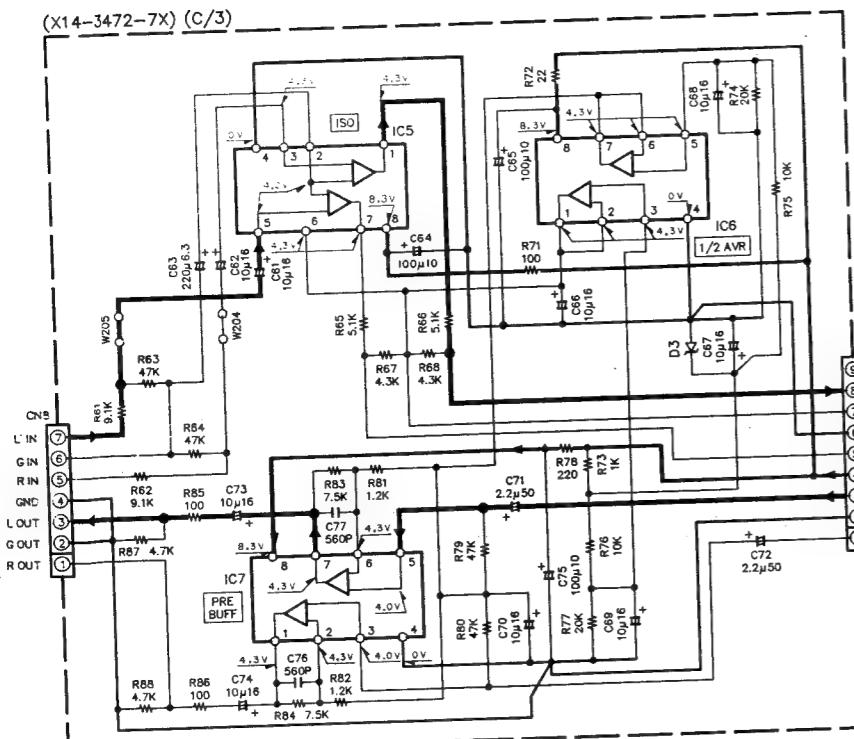
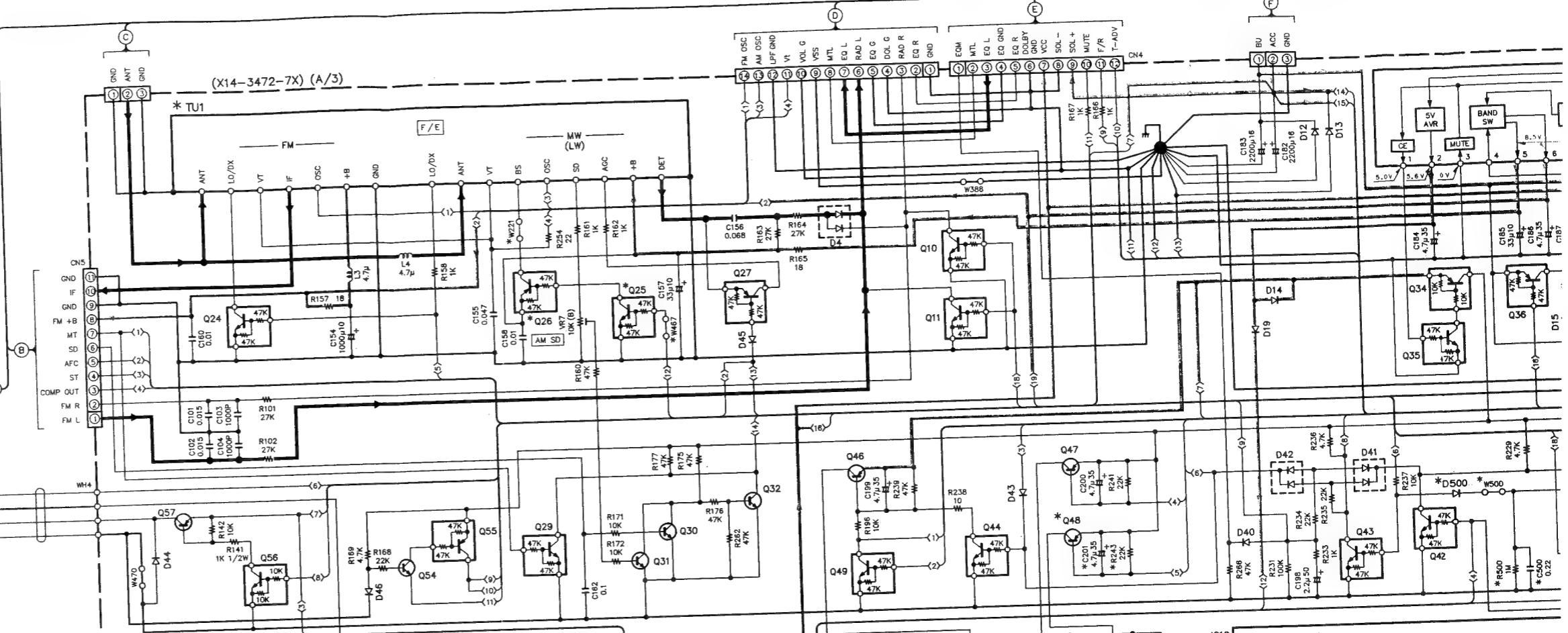
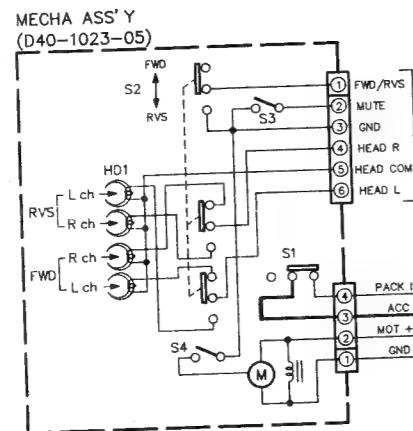




IC10
IC11
IC12
IC13
IC14
IC15

Q10~14, 23~25, 29, 33, 35,
42~44, 49
Q15~21
Q21, 22
Q26, 27, 35, 39, 55
Q30~32, 35, 41, 51~54, 55
Q34
Q37
Q46~48
Q56
Q57

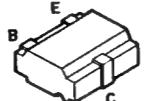
04
005~6, 14~17, 19, 21~27
38~41, 43, 45, 46
09, 10
012, 44
013
018
020
023
026~28, 37
041, 44



DTA114EK DTC114TK 2SC2412K

DTA144EK DTC144EK 2SD1757K

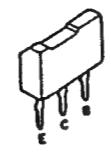
DTC114EK 2SA1037K



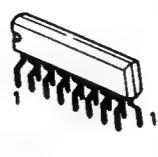
2SC2413K



2SB1370

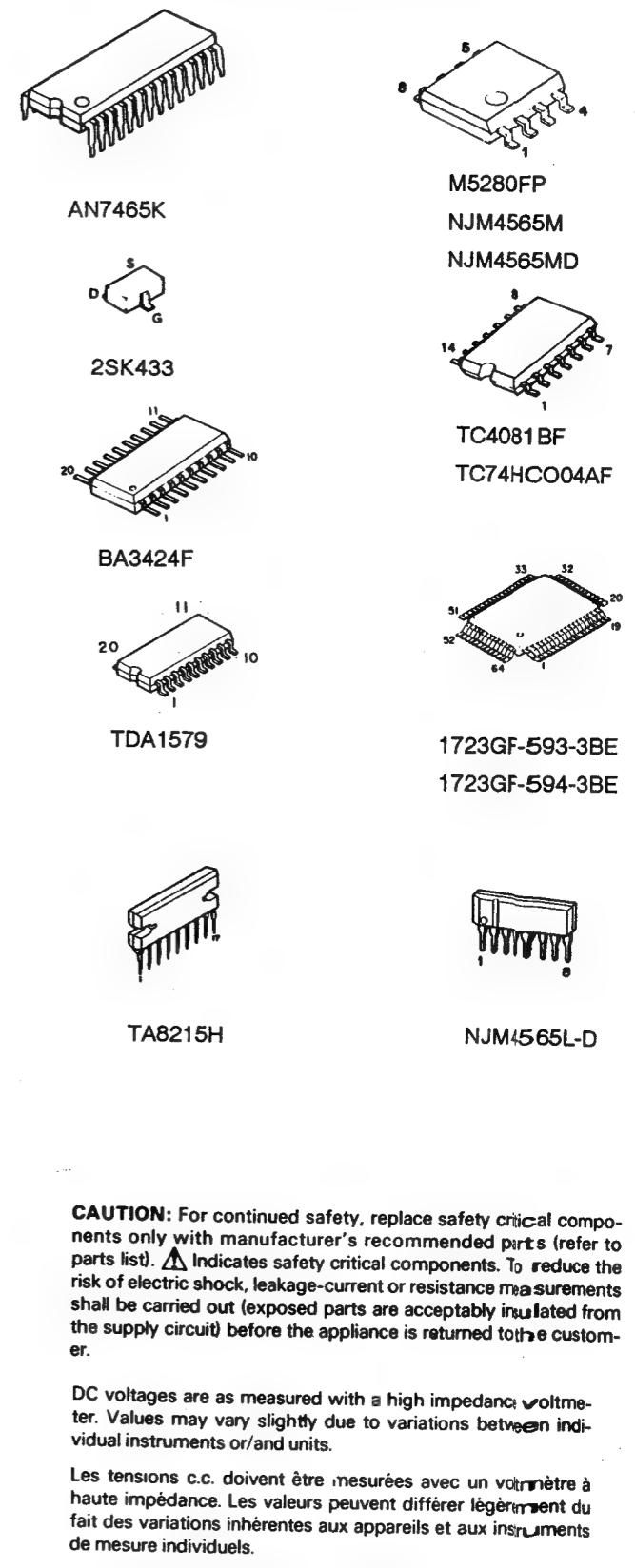
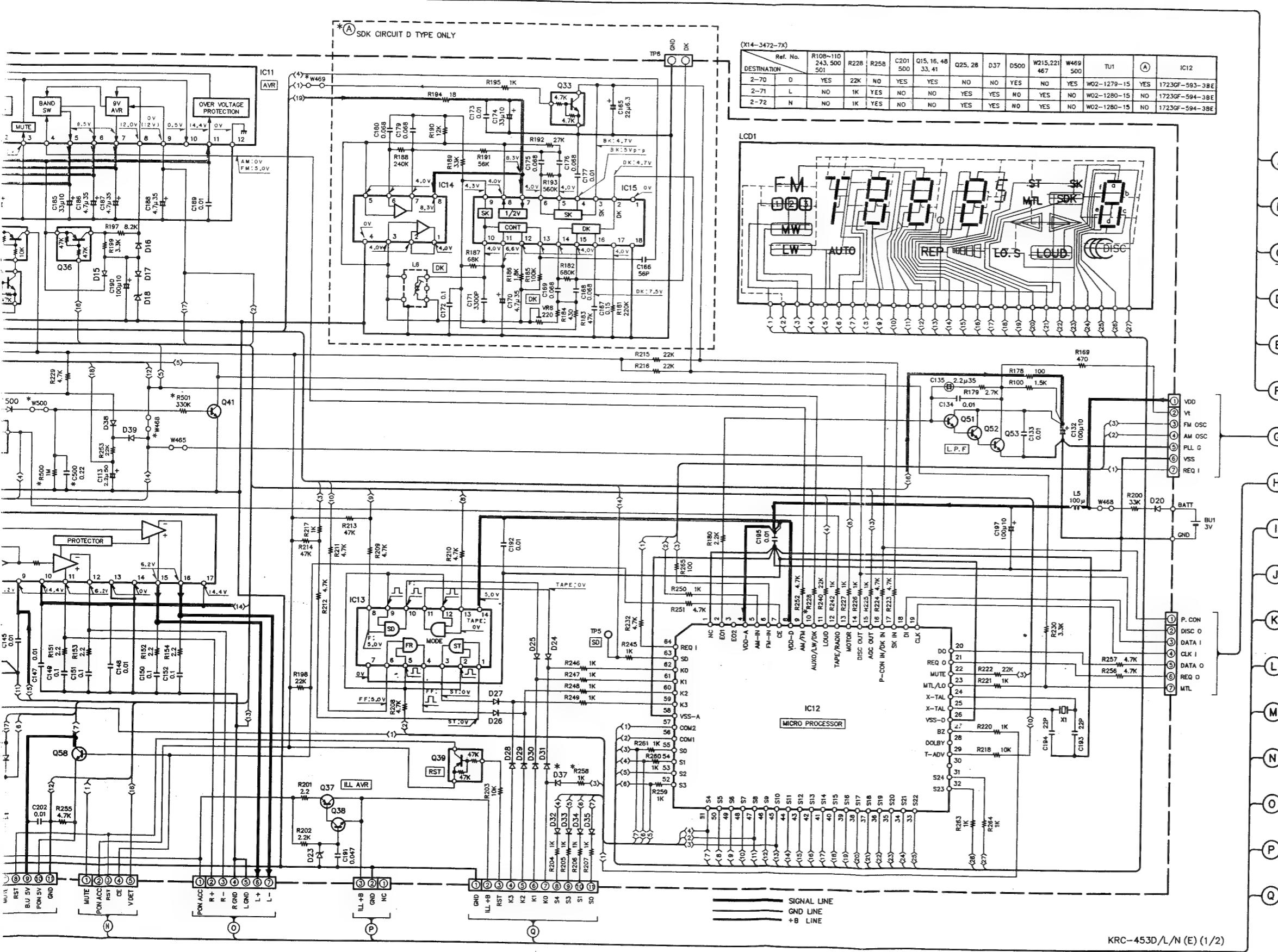


2SA1428



LA1140

K L M N O P Q R S T U

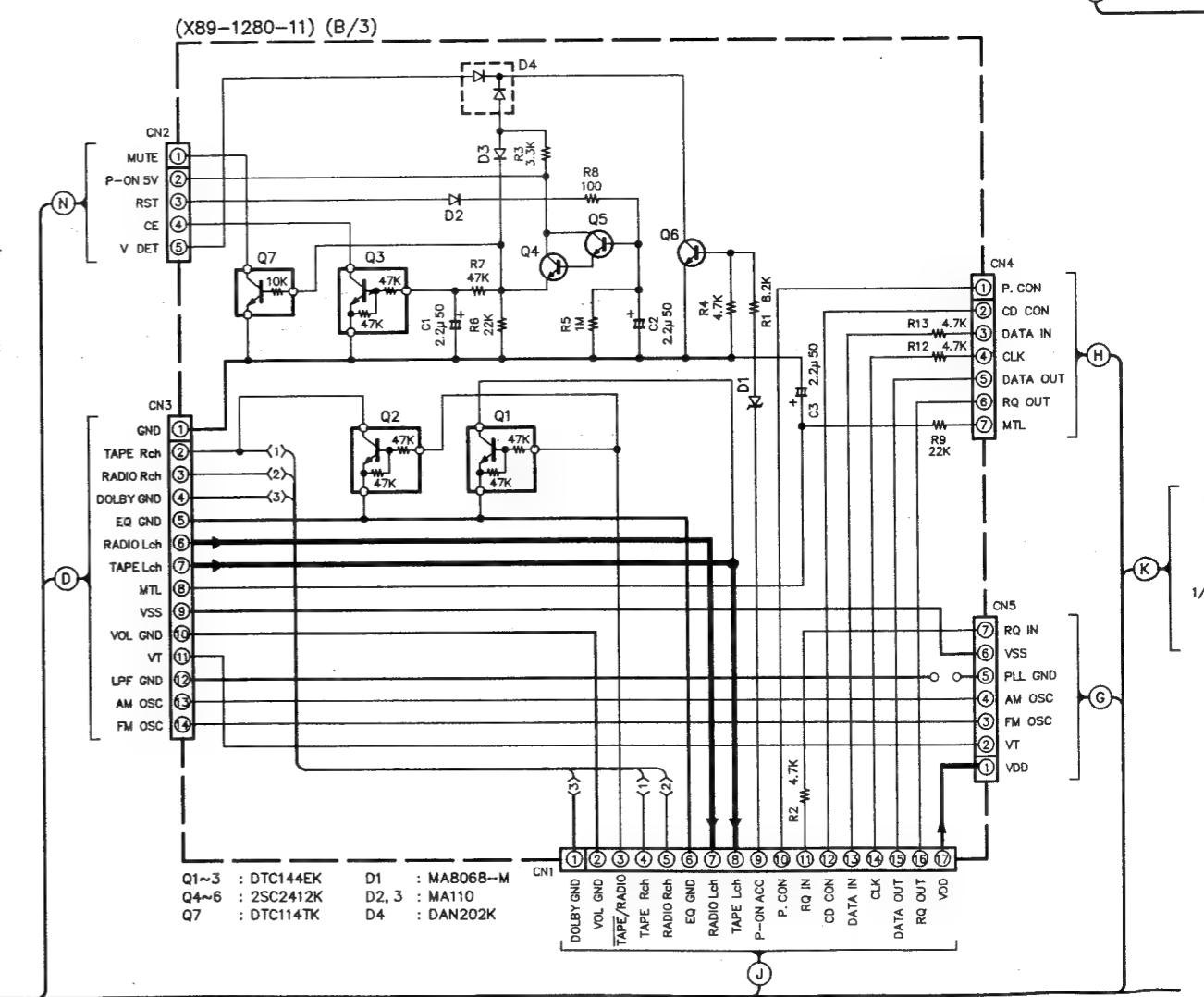
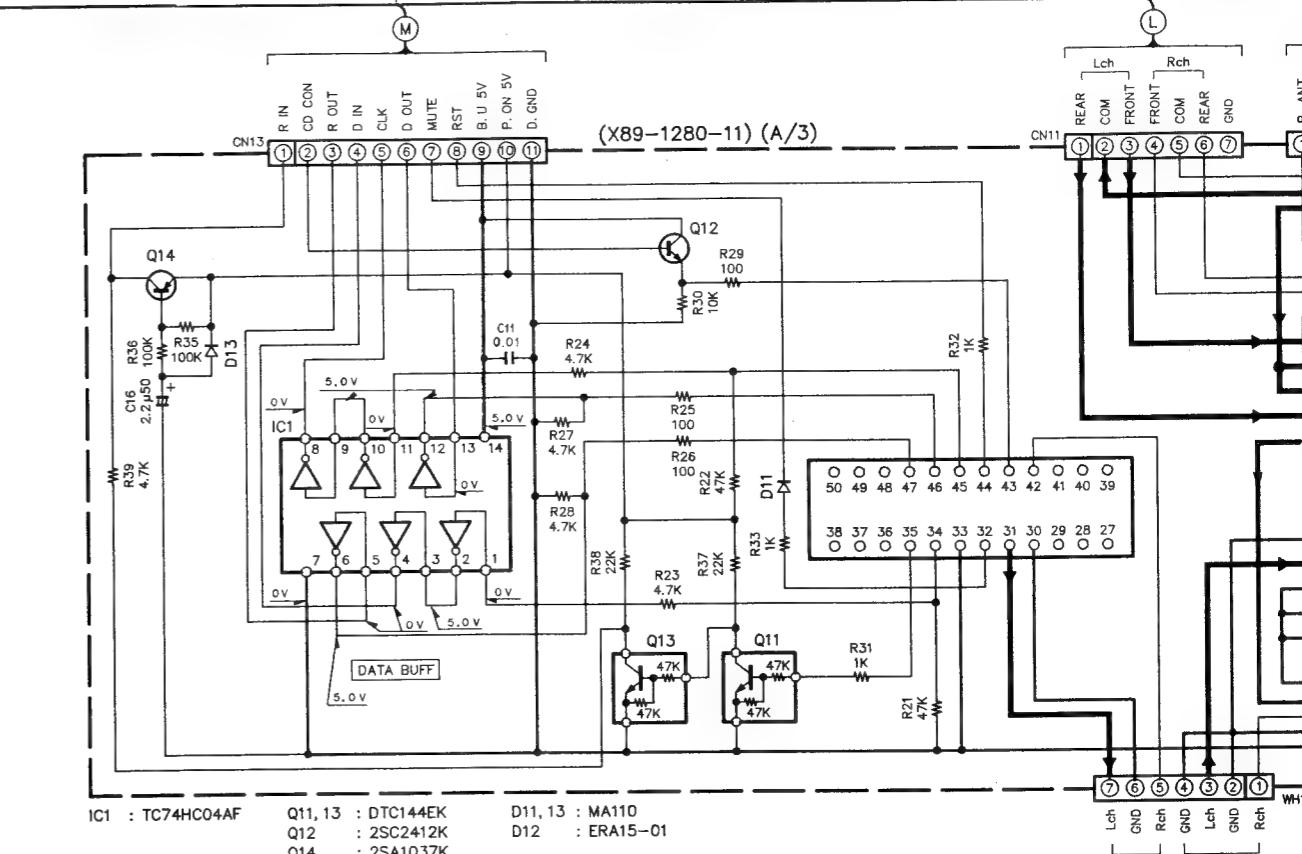
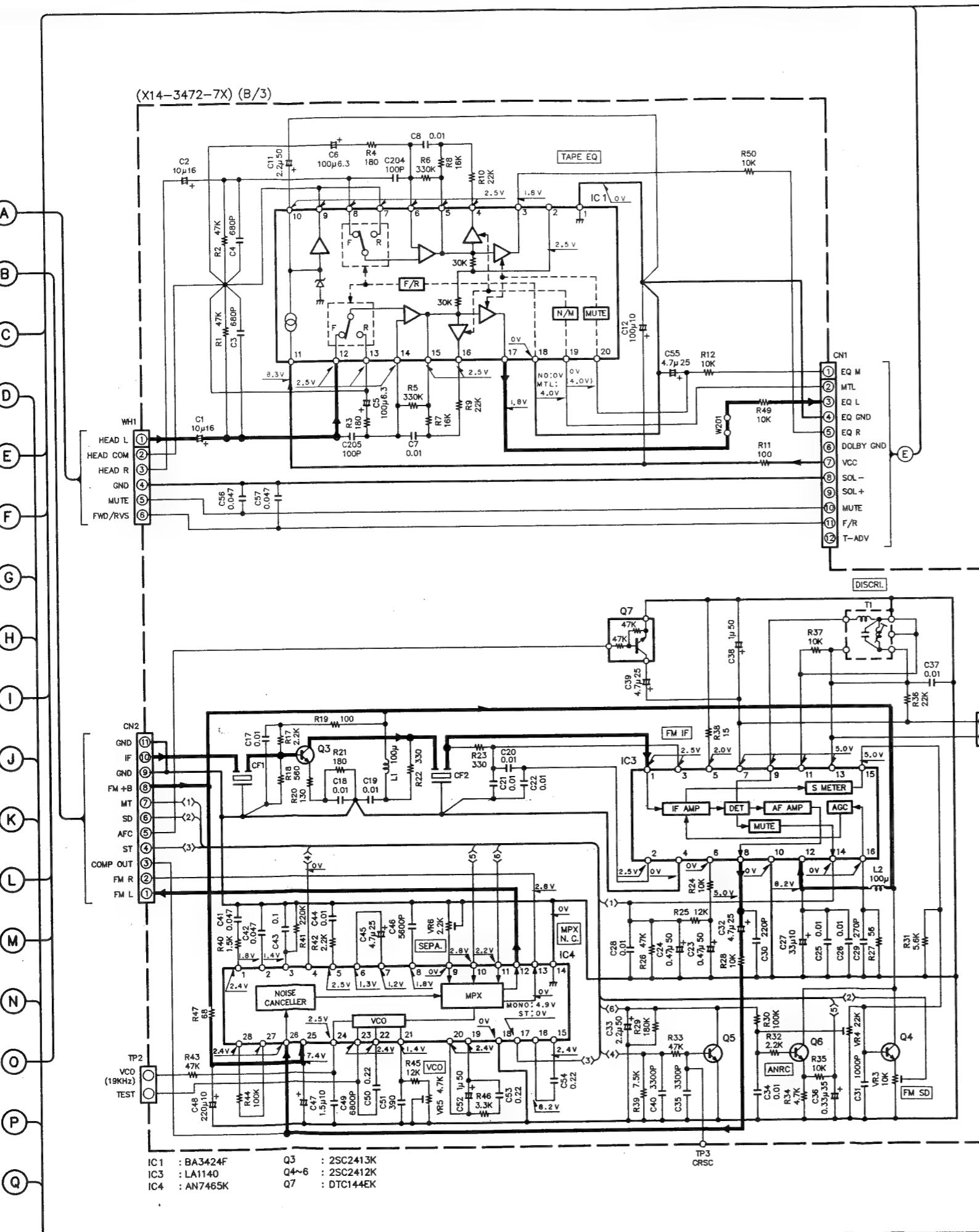


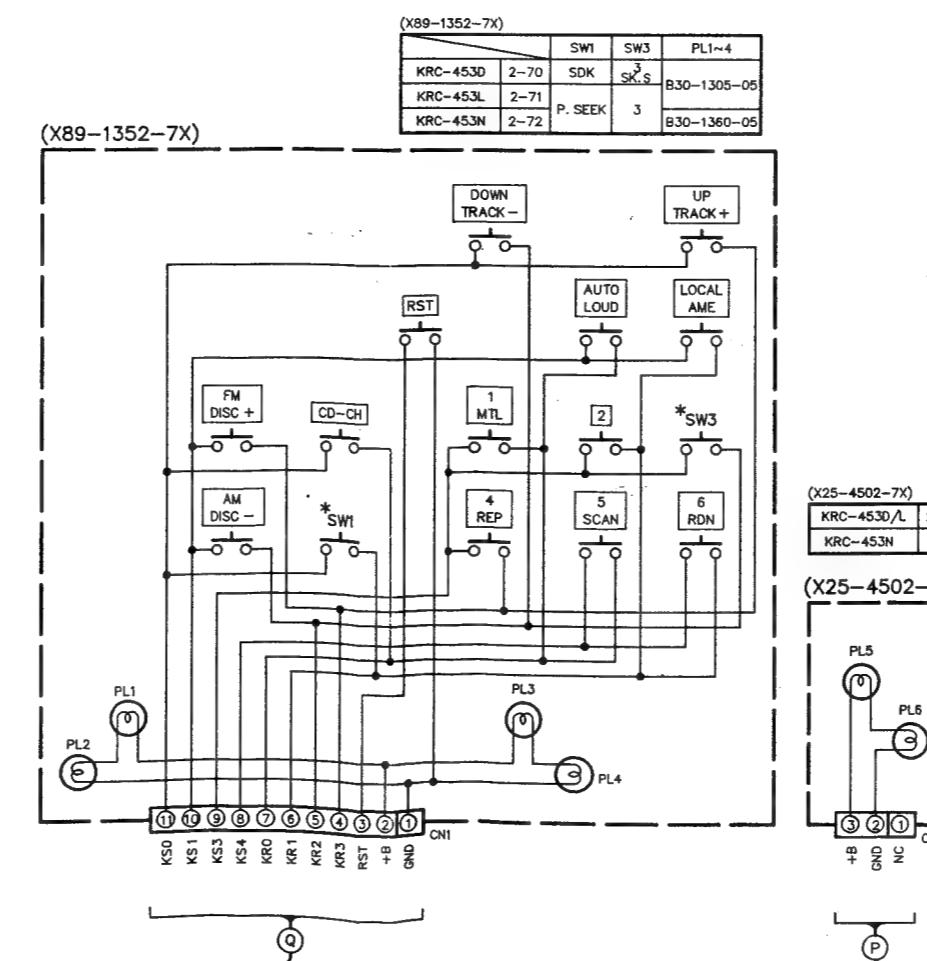
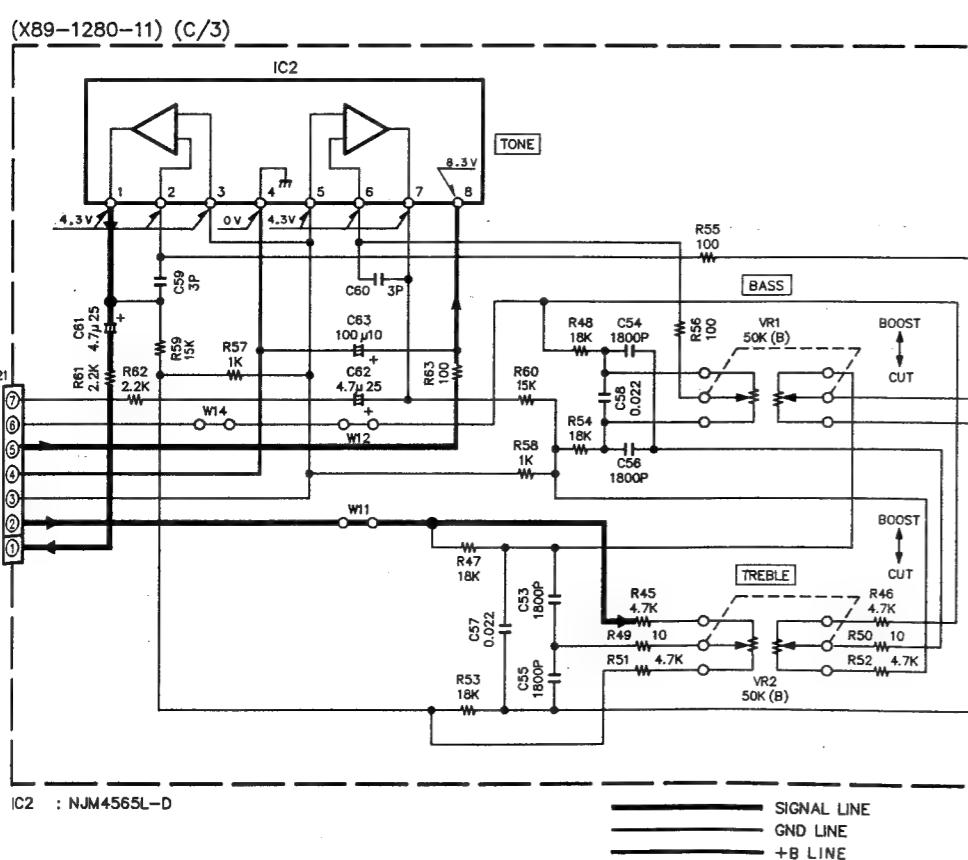
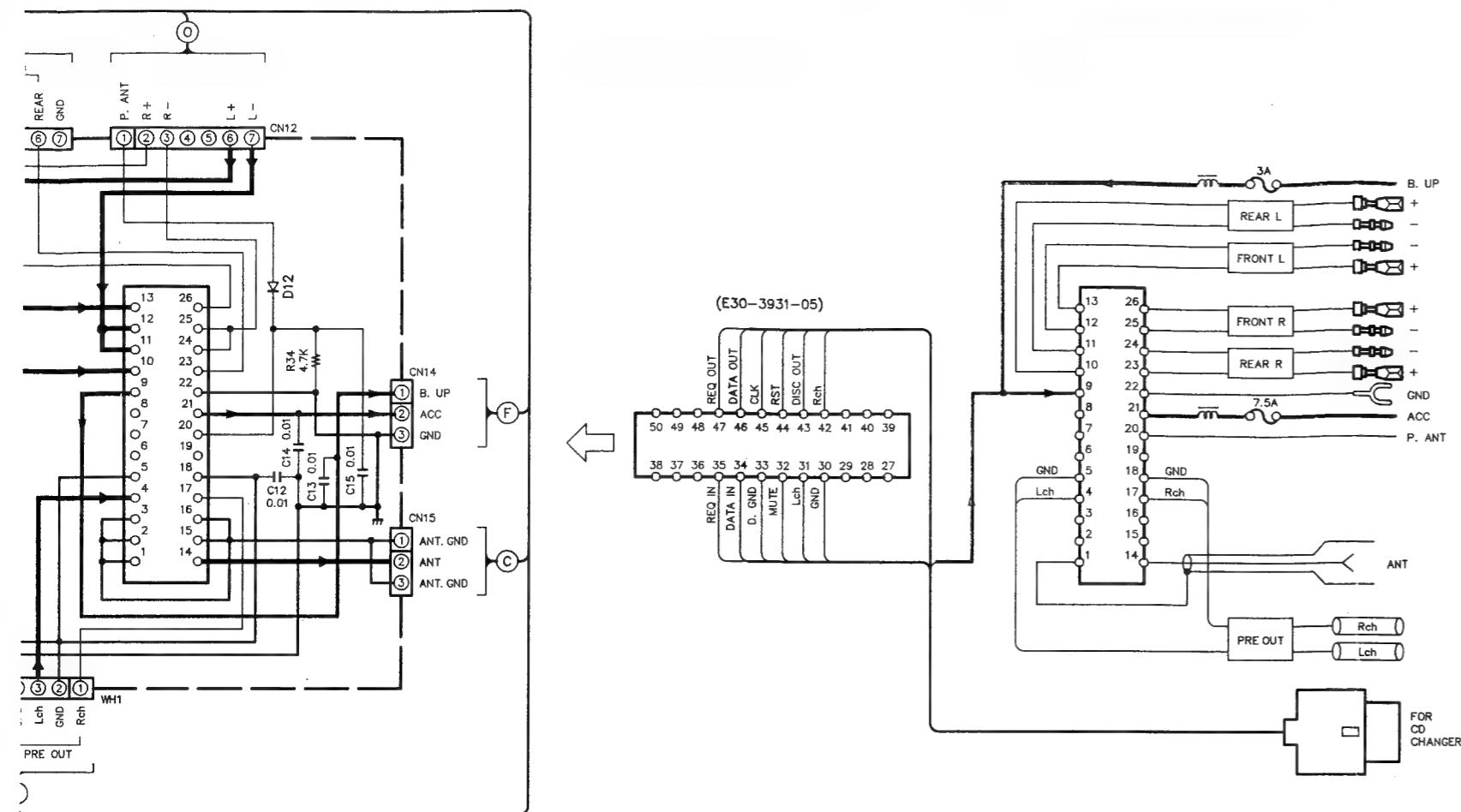
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). **Δ** Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.





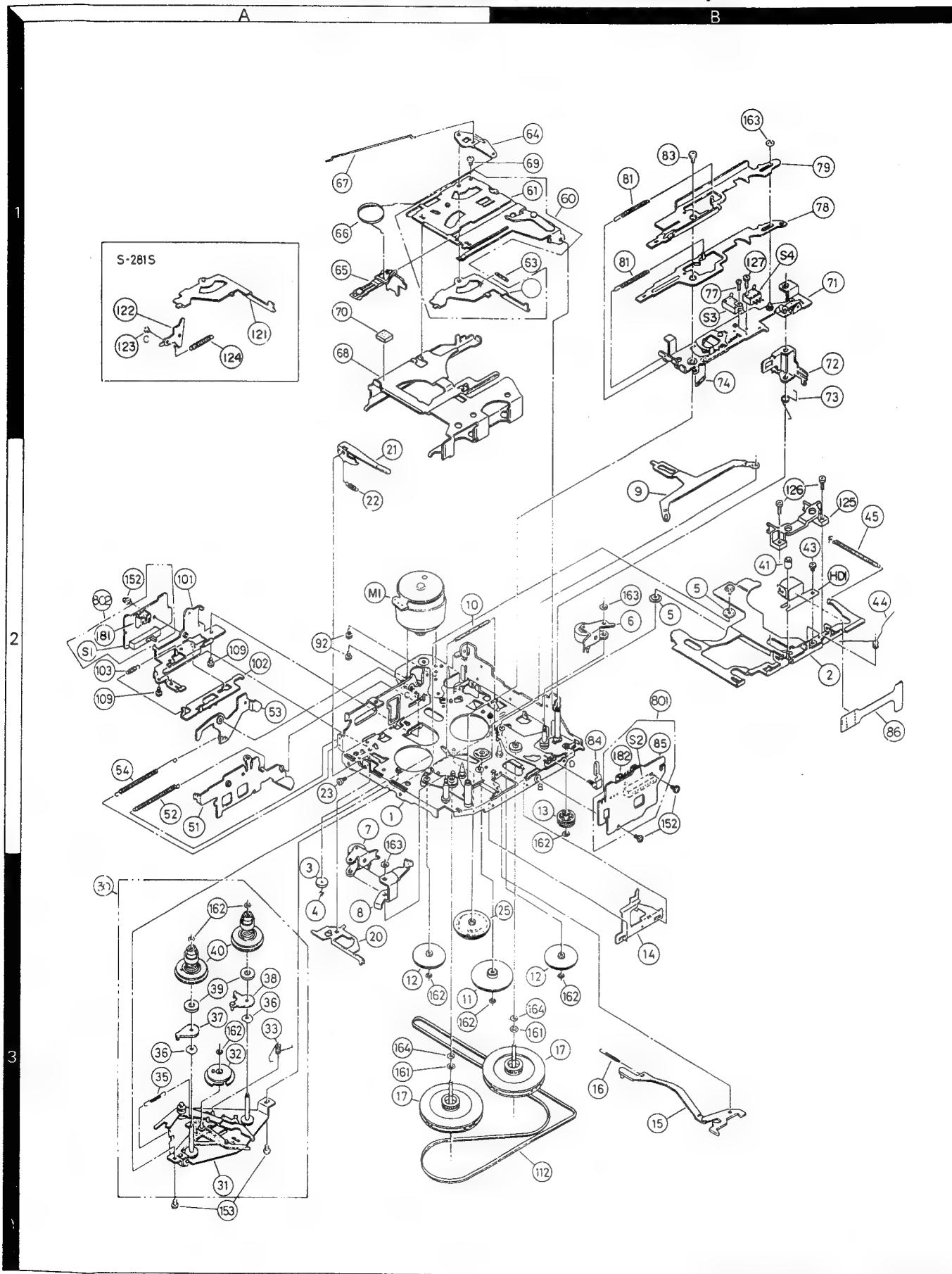
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

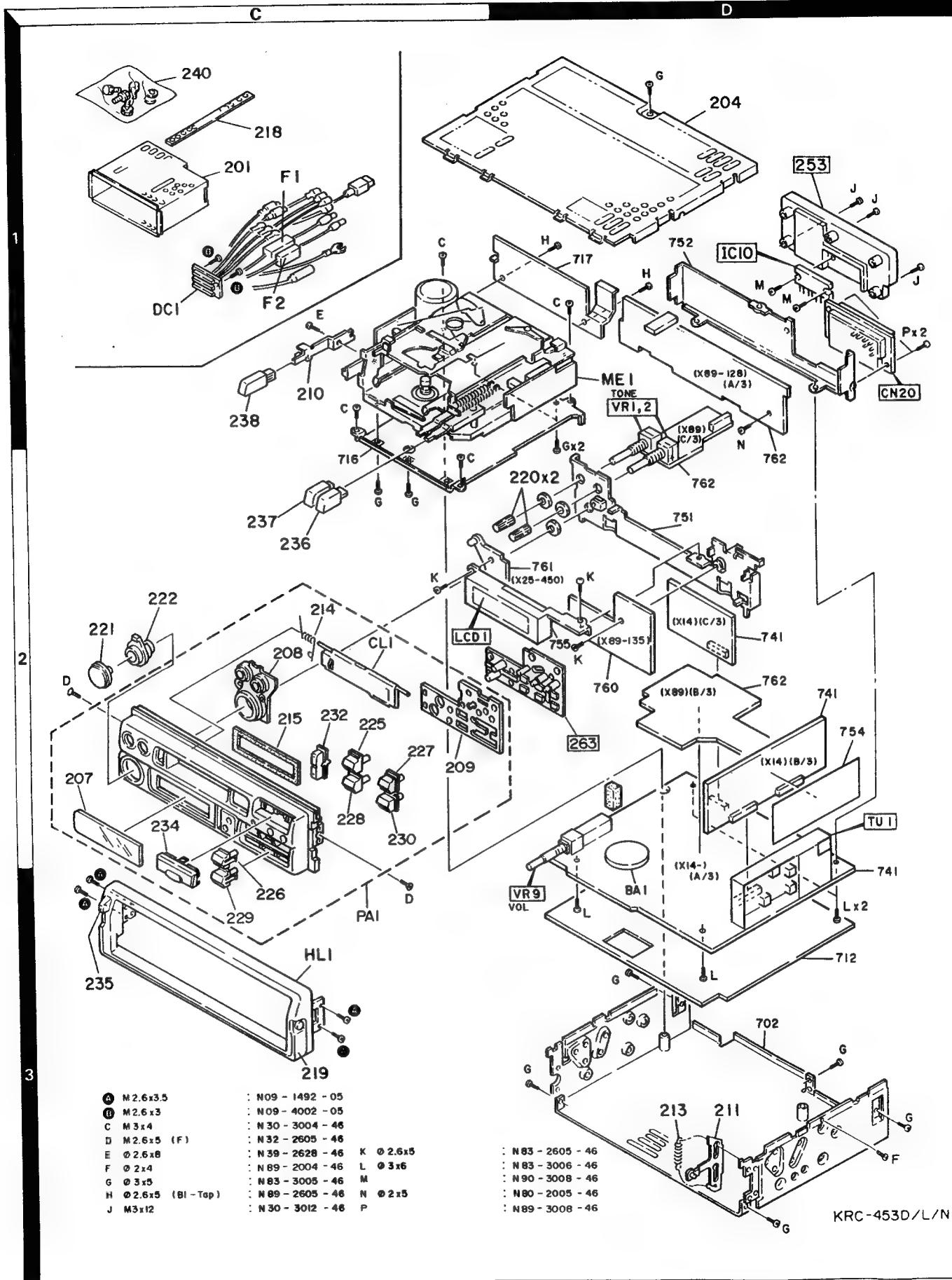
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

EXPLODED VIEW (MECHANISM)



KRC-453 D/L/N

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

| Ref. No. 参照番号 | Address 位 置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti- nation 仕 向 | Re- marks 備考 |
|------------------|----------------|-------------------|-------------------|-------------------------------|-------------------------|--------------------|
| KRC-453-D/L/N | | | | | | |
| 201 | 1C | * | A01-2508-41 | METALLIC CABINET | | |
| 204 | 1C, 1D | * | A52-0625-22 | TOP COVER | | |
| CL1 | 2C | * | A53-1534-03 | CASSETTE LID | D | |
| PA1 | 2C | * | A20-7698-02 | PANEL ASSY | L | |
| PA1 | 2C | * | A20-7700-02 | PANEL ASSY | D | |
| PA1 | 2C | * | A20-7770-02 | PANEL ASSY | N | |
| 207 | 2C | * | B10-1421-03 | FRONT GLASS | D | |
| 207 | 2C | * | B10-1422-03 | FRONT GLASS | L | |
| 207 | 2C | * | B10-1466-03 | FRONT GLASS | N | |
| 208 | 2C | * | B19-0883-02 | LIGHTING BOARD | D | |
| 209 | 2C | * | B19-0884-02 | LIGHTING BOARD | L | |
| - | | | B46-0100-20 | WARRANTY CARD | D | |
| - | | | B46-0182-04 | ID CARD | D | |
| - | | * | B64-0123-00 | INSTRUCTION MANUAL (F,D) | D | |
| - | | * | B64-0124-00 | INSTRUCTION MANUAL (E,F) | L,N | |
| - | | * | B64-0131-00 | INSTRUCTION MANUAL (H,I,SP) | L,N | |
| HL1 | 3C | | B07-2014-42 | ESCUTCHEON ASSY | | |
| 210 | 1C | | D10-2522-14 | LEVER | | |
| MB1 | 1C, 1D | | D40-1023-05 | CASSETTE MECHANISM ASSY | | |
| DC1 | 1C | | E30-3966-05 | CONNECTOR ASSY | | |
| F1 | 1C | | F05-7521-05 | FUSE (7.5A, ACC) | | |
| F2 | 1C | | F06-3026-05 | FUSE (3A, B.U.) | | |
| 213 | 3D | | G01-2040-04 | EXTENSION SPRING | | |
| 215 | 2C | * | G11-1510-04 | CUSHION | | |
| - | | * | H01-9305-04 | ITEM CARTON CASE | D | |
| - | | * | H01-9306-04 | ITEM CARTON CASE | L | |
| - | | * | H01-9307-04 | ITEM CARTON CASE | N | |
| - | | * | H03-3362-04 | OUTER CARTON CASE | D | |
| - | | * | H03-3363-04 | OUTER CARTON CASE | L | |
| - | | * | H03-3364-04 | OUTER CARTON CASE | N | |
| - | | | H10-4322-23 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | | H25-0329-04 | PROTECTION BAG (280X450X0.03) | | |
| - | | | H25-0336-04 | PROTECTION BAG (170X250X0.03) | | |
| 218 | 1C | | J54-0059-04 | STAY | | |
| 219 | 3C | | K01-0601-03 | HANDLE | | |
| 220 | 2D | * | K23-1011-04 | KNOB (TONE) | | |
| 221 | 2C | * | K23-1012-03 | KNOB (VOL) | | |
| 222 | 2C | * | K23-1013-03 | KNOB (FAD) | | |
| 225 | 2C | * | K24-0907-03 | KNOB (P1) | | |
| 226 | 3C | * | K24-0908-03 | KNOB (P2) | | |
| 227 | 2C | * | K24-0909-03 | KNOB (P3) | | |
| 228 | 2C | * | K24-0910-03 | KNOB (P4) | | |
| 229 | 3C | * | K24-0911-03 | KNOB (P5) | | |
| 230 | 2C | * | K24-0912-03 | KNOB (P6) | | |
| 232 | 2C | * | K25-0591-03 | KNOB (AM, FM) | | |
| 234 | 3C | * | K25-0592-03 | KNOB (TUNE) | | |
| 235 | 3C | | K27-3510-04 | KNOB (LEVER) | | |
| 236 | 2C | * | K27-3523-04 | KNOB (BUTTON)(FF) | | |
| 237 | 2C | * | K27-3524-04 | KNOB (BUTTON)(REW) | D, N | |

D:KRC-453D

L:KRC-453L

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⚠ indicates safety critical components.

KRC-453 D/L/N

PARTS LIST

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| Ref. No. 参照番号 | Address 位 置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕 向 | Re- marks 備考 |
|--------------------------------|----------------|-------------------|-------------------|----------------------------|-------------------------|--------------------|
| 238 | 2C | * | K27-3525-04 | KNOB (BUTTON) (EJECT) | | |
| 240 | 1C | | N99-0278-15 | SCREW SET | | |
| - | | | N19-2002-05 | CORRUGATED WASHER | | |
| - | | | N32-2008-45 | FLAT HEAD MACHIN SCREW | | |
| A | 3A | | N09-1492-05 | MACHINE SCREW (2.6X3.5) | | |
| B | 1C | | N09-4002-05 | STEPPED SCREW (M2.6X3) | | |
| C | 1C, 1D | | N30-3004-46 | PAN HEAD MACHIN SCREW | | |
| D | 2C | | N32-2605-46 | FLAT HEAD MACHIN SCREW | | |
| E | 1C | | N39-2628-46 | PAN HEAD MACHIN SCREW | | |
| F | 2C | | N89-2004-46 | BINDING HEAD TAPTITE SCREW | | |
| G | 1D, 3D | | N83-3005-46 | PAN HEAD TAPTITE SCREW | | |
| H | 1D | | N89-2605-46 | BINDING HEAD TAPTITE SCREW | | |
| BA1 | 3D | | W09-0726-05 | BATTERY | | |
| SYNTHESIZER UNIT (X14-347X-XX) | | | | | | |
| LCD1 | 2D | * | B38-0544-05 | LIQUID CRYSTAL | | |
| C1 , 2 | | | CE04NW1H010M | ELECTOR | 1.0UF | 50WV |
| C3 , 4 | | | CK73FB1H681K | CHIP C | 680PF | K |
| C5 , 6 | | | CE04NW0J101M | ELECTRO | 100UF | 6.3WV |
| C7 , 8 | | | CK73FB1H103K | CHIP C | 0.010UF | K |
| C11 | | | CE04NW1H2R2M | ELECTRO | 2.2UF | 50WV |
| C12 | | | CE04NW1A101M | ELECTRO | 100UF | 10WV |
| C17 -22 | | | CK73FB1H103K | CHIP C | 0.010UF | K |
| C23 , 24 | | | CE04NW1HR47M | ELECTRO | 0.47UF | 50WV |
| C25 , 26 | | | CK73FB1H103K | CHIP C | 0.010UF | K |
| C27 | | | CE04NW1A330M | ELECTRO | 33UF | 10WV |
| C28 | | | CK73FB1H103K | CHIP C | 0.010UF | K |
| C29 | | | CK73FB1H271K | CHIP C | 270PF | K |
| C30 | | | CK73FB1H221K | CHIP C | 220PF | K |
| C31 | | | CK73FB1H102K | CHIP C | 1000PF | K |
| C32 | | | CE04NW1E4R7M | ELECTRO | 4.7UF | 25WV |
| C33 | | | C92-0005-05 | ELECTRO | 2.2UF | 6.3WV |
| C34 | | | CK73FB1H103K | CHIP C | 0.010UF | K |
| C35 | | | CK73FB1H332K | CHIP C | 3300PF | K |
| C36 | | | C92-0502-05 | ELECTRO | 0.33UF | 35WV |
| C37 | | | CK73FB1H103K | CHIP C | 0.010UF | K |
| C38 | | | CE04NW1H010M | ELECTOR | 1.0UF | 50WV |
| C39 | | | CE04NW1E4R7M | ELECTRO | 4.7UF | 25WV |
| C40 | | | CK73FB1H332K | CHIP C | 3300PF | K |
| C41 , 42 | | | CK73FB1E473KTA | CHIP C | 0.047UF | K |
| C43 | | | CK73EB1E104K | CHIP C | 0.10UF | K |
| C44 | | | CK73FB1H103K | CHIP C | 0.010UF | K |
| C45 | | | CE04NW1E4R7M | ELECTRO | 4.7UF | 25WV |
| C46 | | | CK73FB1H562K | CHIP C | 5600PF | K |
| C47 | | | C92-0501-05 | CHIP-TAN | 1.5UF | 6.3WV |
| C48 | | | CE04DW1A221M | ELECTRO | 220UF | 10WV |
| C49 | | | CK73FB1H682K | CHIP C | 6800PF | K |
| C50 | | | C93-0025-05 | CERAMIC | 0.22UF | K |
| C51 | | | CQ92P2A391J | MYLAR | 390PF | J |
| C52 | | | CK73EB1E104K | CHIP C | 0.10UF | K |
| C53 , 54 | | | C93-0025-05 | CERAMIC | 0.22UF | K |
| C55 | | | CE04NW1E4R7M | ELECTRO | 4.7UF | 25WV |
| C56 | | | CK73EB1H473K | CHIP C | 0.047UF | K |

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|------------------|----------------|-------------------|-------------------|-------------------------|---------|-------|------------------------|--------------------|
| C57 | | | CK73FB1E473KTA | CHIP C | 0.047UF | K | | |
| C61 ,62 | | | C90-2554-05 | ELECTRO | 10UF | 16WV | | |
| C63 | | | C90-2546-05 | ELECTRO | 220UF | 6.3WV | | |
| C64 ,65 | | | C90-2550-05 | ELECTRO | 100UF | 10WV | | |
| C66 -70 | | | C90-2554-05 | ELECTRO | 10UF | 16WV | | |
| C71 ,72 | | | C90-2557-05 | ELECTRO | 2.2UF | 50WV | | |
| C73 ,74 | | | C90-2536-05 | ELECTRO | 10UF | 16WV | | |
| C75 | | | C90-2550-05 | ELECTRO | 100UF | 10WV | | |
| C76 ,77 | | | CK73FB1H561K | CHIP C | 560PF | K | | |
| C101,102 | | | CK73FB1H153K | CHIP C | 0.015UF | K | | |
| C103,104 | | | CK73FB1H102K | CHIP C | 1000PF | K | | |
| C107,108 | | | C90-2599-05 | ELECTRO | 4.7UF | 25WV | | |
| C111 | | | CE04CW1A101M | ELECTRO | 100UF | 10WV | | |
| C113 | | | C92-0005-05 | ELECTRO | 2.2UF | 6.3WV | | |
| C126 | | | CE04DW1C101M | ELECTRO | 100UF | 16WV | | |
| C129,130 | | | C90-2606-05 | ELECTRO | 0.47UF | 50WV | | |
| C131 | | | C92-0005-05 | ELECTRO | 2.2UF | 6.3WV | | |
| C132 | | | CE04CW1A101M | ELECTRO | 100UF | 10WV | | |
| C133,134 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C135 | | | C90-2525-05 | NP-ELECT | 2.2UF | 35WV | | |
| C136 | | | CE04CW1A101M | ELECTRO | 100UF | 10WV | | |
| C137,138 | | | C90-2524-05 | NP-ELECT | 4.7UF | 16WV | | |
| C139,140 | | | CE04CW1A470M | ELECTRO | 47UF | 10WV | | |
| C141,142 | | | CK73FB1H272K | CHIP C | 2700PF | K | | |
| C143 | | | CK73FB1H332K | CHIP C | 3300PF | K | | |
| C145 | | | CK73EB1H103K | CHIP C | 0.01UF | K | | |
| C146 | | | CE04DW1A221M | ELECTRO | 220UF | 10WV | | |
| C147,148 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C149-152 | | | CK73EB1E104K | CHIP C | 0.10UF | K | | |
| C154 | | | CE04DW1A102M | ELECTRO | 1000UF | 10WV | | |
| C155 | | | CK73FB1E473KTA | CHIP C | 0.047UF | K | | |
| C156 | | | CK73EB1E683K | CHIP C | 0.068UF | K | | |
| C157 | | | CE04CW1A330M | ELECTRO | 33UF | 10WV | | |
| C158 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C160 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C162 | | | CK73EB1E104K | CHIP C | 0.10UF | K | | |
| C165 | | | CE04CW0J220M | ELECTRO | 22UF | 6.3WV | D | |
| C166 | | | CC73FSL1H560J | CHIP C | 56PF | J | D | |
| C167 | | | CK73DB1H154K | CHIP C | 0.15UF | K | D | |
| C168,169 | | | C91-2006-05 | ELECTRO | 0.068UF | 50WV | D | |
| C170 | | | CE04CW1V4R7M | ELECTRO | 4.7UF | 35WV | D | |
| C171 | | | CQ93AP2A332J | POLYPRO | 3300PF | J | D | |
| C172 | | | CK73EB1E104K | CHIP C | 0.10UF | K | D | |
| C173 | | | CK73EB1H103K | CHIP C | 0.01UF | K | D | |
| C174 | | | CE04CW1A330M | ELECTRO | 33UF | 10WV | D | |
| C175,176 | | | C91-2006-05 | ELECTRO | 0.068UF | 50WV | D | |
| C177 | | | CK73FB1H103K | CHIP C | 0.010UF | K | D | |
| C179,180 | | | C91-2006-05 | ELECTRO | 0.068UF | 50WV | D | |
| C182,183 | | | C90-2537-05 | ELECTRO | 2200UF | 16WV | D | |
| C184 | | | CE04CW1V4R7M | ELECTRO | 4.7UF | 35WV | D | |
| C185 | | | CE04CW1A330M | ELECTRO | 33UF | 10WV | | |
| C186-188 | | | CE04CW1V4R7M | ELECTRO | 4.7UF | 35WV | | |
| C189 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C190 | | | CE04CW1A101M | ELECTRO | 100UF | 10WV | | |
| C191 | | | CK73EB1H473K | CHIP C | 0.047UF | K | | |

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KRC-453 D/L/N

PARTS LIST

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|------------------|----------------|-------------------|-------------------|--------------------------------|---------|-------|-----------|------------------------|--------------------|
| C192 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | | |
| C193, 194 | | | CC73FCH1H220J | CHIP C | 22PF | J | | | |
| C195 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | | |
| C197 | | | C90-2579-05 | ELECTRO | 100UF | 10WV | | | |
| C198 | | | C92-0005-05 | ELECTRO | 2.2UF | 6.3WV | | | |
| C199 | | | CE04NW1H2R2M | ELECTRO | 2.2UF | 50WV | | | |
| C200 | | | CE04CW1V4R7M | ELECTRO | 4.7UF | 35WV | | | |
| C200, 201 | | | CE04CW1V4R7M | ELECTRO | 4.7UF | 35WV | L, N D | | |
| C202 | | | CK73EB1H103K | CHIP C | 0.01UF | K | | | |
| C203 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | | |
| C204, 205 | | | CC73FCH1H101J | CHIP C | 100PF | J | | | |
| C500 | | | C93-0025-05 | CERAMIC | 0.22UF | K | D | | |
| 253 | 1D | * | F01-1383-03 | HEAT SINK | | | | | |
| LH1 | | | J19-4316-05 | HOLDER | | | | | |
| CF1 ,2 | | | L72-0524-05 | CERAMIC FILTER | | | | | |
| L1 ,2 | | | L40-1011-17 | SMALL FIXED INDUCTOR | | | | | |
| L3 ,4 | | | L40-4791-17 | SMALL FIXED INDUCTOR(4.7UH, K) | | | | | |
| L5 | | | L40-1011-17 | SMALL FIXED INDUCTOR | | | | | |
| L6 | | | L39-0156-05 | TRAP COIL | | | | D | |
| T1 | | | L30-0462-15 | FM IFT | | | | | |
| X1 | | | L77-1163-05 | CRYSTAL RESONATOR | | | | | |
| J | 1D | | N30-3012-46 | PAN HEAD MACHIN SCREW | | | | | |
| K | 1D | | N83-2605-46 | PAN HEAD TAPWHITE SCREW | | | | | |
| L | 1D, 3D | | N83-3006-46 | PAN HEAD TAPWHITE SCREW | | | | | |
| M | 1D | | N90-3008-46 | TP HEAD MACHINE SCREW | | | | | |
| P | | | N89-3008-46 | BINDING HEAD TAPWHITE SCREW | | | | | |
| R1 ,2 | | | RK73FB2A683J | CHIP R | 68K | J | 1/10W | | |
| R3 ,4 | | | RK73EB2B181J | CHIP R | 180 | J | 1/8W | | |
| R5 ,6 | | | RK73FB2A334J | CHIP R | 330K | J | 1/10W | | |
| R7 ,8 | | | RK73FB2A163J | CHIP R | 16K | J | 1/10W | | |
| R9 ,10 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | |
| R11 | | | RK73FB2A220J | CHIP R | 22 | J | 1/10W | | |
| R12 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R17 | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R18 | | | RK73FB2A561J | CHIP R | 560 | J | 1/10W | | |
| R19 | | | RK73EB2B101J | CHIP R | 100 | J | 1/8W | | |
| R20 | | | RK73FB2A131J | CHIP R | 130 | J | 1/10W | | |
| R21 | | | RK73FB2A181J | CHIP R | 180 | J | 1/10W | | |
| R22 ,23 | | | RK73FB2A331J | CHIP R | 330 | J | 1/10W | | |
| R24 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R25 | | | RK73FB2A123J | CHIP R | 12K | J | 1/10W | | |
| R26 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R27 | | | RK73FB2A563J | CHIP R | 56K | J | 1/10W | | |
| R28 | | | RK73FB2A100J | CHIP R | 10 | J | 1/10W | | |
| R29 | | | RK73FB2A184J | CHIP R | 180K | J | 1/10W | | |
| R30 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R31 | | | RK73FB2A562J | CHIP R | 5.6K | J | 1/10W | | |
| R32 | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R33 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R34 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R35 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R36 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | |

D:KRC-453D

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|------------------|----------------|-------------------|-------------------|--------------------------|------|---|-------|-------------------------|--------------------|
| R37 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R38 | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R39 | | | RK73FB2A752J | CHIP R | 7.5K | J | 1/10W | | |
| R40 | | | RK73FB2A152J | CHIP R | 1.5K | J | 1/10W | | |
| R41 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R42 | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R43 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R44 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R45 | | | RK73FB2A123J | CHIP R | 12K | J | 1/10W | | |
| R46 | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | | |
| R47 | | | RK73FB2A680J | CHIP R | 68 | J | 1/10W | | |
| R49 ,50 | | | RK73EB2B103J | CHIP R | 10K | J | 1/8W | | |
| R61 ,62 | | | RK73FB2A912J | CHIP R | 9.1K | J | 1/10W | | |
| R63 ,64 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R65 ,66 | | | RK73FB2A512J | CHIP R | 5.1K | J | 1/10W | | |
| R67 | | | RK73EB2B432J | CHIP R | 4.3K | J | 1/8W | | |
| R68 | | | RK73FB2A432J | CHIP R | 4.3K | J | 1/10W | | |
| R69 ,70 | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | | |
| R71 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R73 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R74 | | | RK73FB2A203J | CHIP R | 20K | J | 1/10W | | |
| R75 ,76 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R77 | | | RK73FB2A203J | CHIP R | 20K | J | 1/10W | | |
| R78 | | | RK73FB2A221J | CHIP R | 220 | J | 1/10W | | |
| R79 ,80 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R81 ,82 | | | RK73FB2A122J | CHIP R | 1.2K | J | 1/10W | | |
| R83 ,84 | | | RK73FB2A752J | CHIP R | 7.5K | J | 1/10W | | |
| R85 ,86 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R87 ,88 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R100 | | | RK73FB2A152J | CHIP R | 1.5K | J | 1/10W | | |
| R101,102 | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | | |
| R103 | | | RK73EB2B222J | CHIP R | 2.2K | J | 1/8W | | |
| R104 | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R107 | | | RK73EB2B223J | CHIP R | 22K | J | 1/8W | | |
| R108,109 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | D | |
| R110 | | | RK73FB2A132J | CHIP R | 1.3K | J | 1/10W | D | |
| R132 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R133-136 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R137,138 | | | RK73EB2B102J | CHIP R | 1.0K | J | 1/8W | | |
| R141 | | | R92-0365-05 | CHIP R | 1K | J | 1/2W | | |
| R142 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R143,144 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R145,146 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R147,148 | | | RK73EB2B100J | CHIP R | 10 | J | 1/8W | | |
| R149,150 | | | RK73EB2B753J | CHIP R | 75K | J | 1/8W | | |
| R151-154 | | | RK73EB2B2R2J | CHIP R | 2.2 | J | 1/8W | | |
| R155 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R156 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R157 | | | RK73EB2B180J | CHIP R | 18 | J | 1/8W | | |
| R158 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R159 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R160 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R161 | | | RK73EB2B102J | CHIP R | 1.0K | J | 1/8W | | |
| R162 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R163,164 | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | | |

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|-----------|---------|-----------|--------------|-------------|------|---|-------|------|------------------|--------------|
| 参照番号 | 位 置 | 新 | 部品番号 | 部品名 / 規 格 | | | | | 仕 向 | 備考 |
| R165 | | | RK73EB2B180J | CHIP R | 18 | J | 1/8W | | | |
| R166, 167 | | | RK73EB2B102J | CHIP R | 1.0K | J | 1/8W | | | |
| R168 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | | |
| R169 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | | |
| R171, 172 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | | |
| R175-177 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | | |
| R178 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | | |
| R179 | | | RK73FB2A272J | CHIP R | 2.7K | J | 1/10W | | | |
| R180 | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | | |
| R181 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | D | | |
| R182 | | | RK73FB2A684J | CHIP R | 680K | J | 1/10W | D | | |
| R183 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | D | | |
| R184 | | | RK73EB2B431J | CHIP R | 430 | J | 1/8W | D | | |
| R185 | | | RK73EB2B104J | CHIP R | 100K | J | 1/8W | D | | |
| R186 | | | RK73FB2A182J | CHIP R | 1.8K | J | 1/10W | D | | |
| R187 | | | RK73FB2A683J | CHIP R | 68K | J | 1/10W | D | | |
| R188 | | | RK73FB2A244J | CHIP R | 240K | J | 1/10W | D | | |
| R189 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | D | | |
| R190 | | | RK73FB2A123J | CHIP R | 12K | J | 1/10W | D | | |
| R191 | | | RK73FB2A563J | CHIP R | 56K | J | 1/10W | D | | |
| R192 | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | D | | |
| R193 | | | RK73FB2A564J | CHIP R | 560K | J | 1/10W | D | | |
| R194 | | | RK73EB2B180J | CHIP R | 18 | J | 1/8W | D | | |
| R195 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | D | | |
| R196 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | | |
| R197 | | | RK73FB2A822J | CHIP R | 8.2K | J | 1/10W | | | |
| R198 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | | |
| R199 | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | | | |
| R201 | | | R92-2021-05 | CHIP R | 2.2 | J | 1/2W | | | |
| R202 | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | | |
| R203 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | | |
| R204-207 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | | |
| R208-212 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | | |
| R213, 214 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | | |
| R215, 216 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | | |
| R217 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | | |
| R218 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | | |
| R220, 221 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | | |
| R222 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | | |
| R223, 224 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | | |
| R225 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | | |
| R226 | | | RK73EB2B102J | CHIP R | 1.0K | J | 1/8W | | | |
| R227 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | D | | |
| R227, 228 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | L, N | | |
| R228 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | D | | |
| R229 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | | |
| R230 | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | | | |
| R231 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | | |
| R232 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | | |
| R233 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | | |
| R234, 235 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | | |
| R236 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | | |
| R237, 238 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | | |
| R239 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | | |
| R240, 241 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | | |

D:KRC-453D

L:KRC-453L

N:KRC-453N

⚠ indicates safety critical components.

PARTS LIST

* New Parts

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| Ref. No. 参照番号 | Address 位 置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | | | | Desti- nation 仕 向 | Re- marks 備考 |
|------------------|----------------|-------------------|-------------------|----------------------------|------|---|-------|-------------------------|--------------------|
| R242 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R243 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | D | |
| R245-250 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R251, 252 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R253 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | |
| R254 | | | RK73FB2A220J | CHIP R | 22 | J | 1/10W | | |
| R255-257 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R258-261 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | L, N | |
| R259-261 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | D | |
| R262 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R263, 264 | | | RK73EB2B102J | CHIP R | 1.0K | J | 1/8W | | |
| R265 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R266 | | | RK73EB2B473J | CHIP R | 47K | J | 1/8W | | |
| R500 | | | RK73FB2A105J | CHIP R | 1.0M | J | 1/10W | D | |
| R501 | | | RK73FB2A334J | CHIP R | 330K | J | 1/10W | D | |
| VR3 | | | R12-3127-05 | TRIMMING POT.(10K) | | | | | |
| VR4 | | | R12-3129-05 | TRIMMING POT.(22K) | | | | | |
| VR5 | | | R12-1090-05 | TRIMMING POT.(4.7K) | | | | | |
| VR6 | | | R12-1086-05 | TRIMMING POT.(2.2K) | | | | | |
| VR7 | | | R12-3685-05 | TRIMMING POT.(10K) | | | | | |
| VR8 | | | R12-0605-05 | TRIMMING POT.(220) | | | | | |
| VR9 | | | R24-3646-05 | POTENTIOMETER(80X1, 20KX3) | | | | | |
| W1 -47 | | | R92-2053-05 | CHIP R | 0 | J | 1/8W | | |
| W49 -65 | | | R92-2053-05 | CHIP R | 0 | J | 1/8W | | |
| W68 ,69 | | | R92-2053-05 | CHIP R | 0 | J | 1/8W | | |
| W81 -92 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | |
| W94 -100 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | |
| W103-107 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | |
| W108 | | | R92-2053-05 | CHIP R | 0 | J | 1/8W | | |
| W109, 110 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | |
| W112-114 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | |
| W116 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | |
| W120 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | |
| W201 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | |
| W204, 205 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | |
| W207, 208 | | | R92-2053-05 | CHIP R | 0 | J | 1/8W | | |
| W215 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | L, N | |
| W219 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | D | |
| W220 | | | R92-2053-05 | CHIP R | 0 | J | 1/8W | | |
| W221 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | L, N | |
| W223-225 | | | R92-2053-05 | CHIP R | 0 | J | 1/8W | D | |
| W223, 224 | | | R92-2053-05 | CHIP R | 0 | J | 1/8W | L, N | |
| W226 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | D | |
| W500 | | | R92-2053-05 | CHIP R | 0 | J | 1/8W | D | |
| D3 | | | RD6.2JS(B2) | ZENER DIODE | | | | | |
| D4 | | | DAP202K | DIODE | | | | | |
| D5 -8 | | | MA110 | DIODE | | | | | |
| D5 -8 | | | 1SS355 | DIODE | | | | | |
| D9 ,10 | | | 1S1555 | DIODE | | | | | |
| D12 | | | ERA15-01 | DIODE | | | | | |
| D13 | | | RM10Z | DIODE | | | | | |
| D14 -17 | | | MA110 | DIODE | | | | | |
| D14 -17 | | | 1SS355 | DIODE | | | | | |
| D18 | | | MA8068-M | ZENER DIODE | | | | | |

D:KRC-453D

L:KRC-453L

N:KRC-453N

△ indicates safety critical components.

KRC-453 D/L/N

PARTS LIST

* New Parts

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| Ref. No. 参照番号 | Address 位 置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti- nation 仕 向 | Re- marks 備考 |
|------------------|----------------|-------------------|-------------------|-----------------------|-------------------------|--------------------|
| D19 | | | MA110 | DIODE | | |
| D19 | | | 1SS355 | DIODE | | |
| D20 | | | SD184-1 | DIODE | | |
| D21 , 22 | | | MA110 | DIODE | | |
| D21 , 22 | | | 1SS355 | DIODE | | |
| D23 | | | HZS11B2L | ZENER DIODE | | |
| D24 -27 | | | MA110 | DIODE | | |
| D24 -27 | | | 1SS355 | DIODE | | |
| D28 -35 | | | 1SS176 | DIODE | | |
| D37 | | | 1SS176 | DIODE | L, N | |
| D38 -40 | | | MA110 | DIODE | | |
| D38 -40 | | | 1SS355 | DIODE | | |
| D41 , 42 | | | DAN202K | DIODE | | |
| D43 | | | MA110 | DIODE | | |
| D43 | | | 1SS355 | DIODE | | |
| D44 | | | ERA15-01 | DIODE | | |
| D45 , 46 | | | MA110 | DIODE | D | |
| D45 , 46 | | | 1SS355 | DIODE | D | |
| D500 | | | MA110 | DIODE | | |
| D500 | | | 1SS355 | DIODE | | |
| IC1 | | | BA3424F | IC | | |
| IC3 | | | LA1140 | IC(FM IF/DETECTION) | | |
| IC4 | | | AN7465K | IC | | |
| IC5 | | | M5280FP | IC | | |
| IC6 , 7 | | | NJM4565MD | IC(OP AMP X2) | | |
| IC10 | | | TA8215H | IC | | |
| IC11 | | | BA3906-V1 | IC | | |
| IC12 | * | | 1723GF-593-3BE | IC | D | |
| IC12 | * | | 1723GF-594-3BE | IC | L, N | |
| IC13 | | | TC4081BF | IC(AND X4) | | |
| IC14 | | | NJM4565M | IC | D | |
| IC15 | | | TDA1579 | IC(DECODER) | D | |
| Q3 | | | 2SC2413K | TRANSISTOR | | |
| Q4 -6 | | | 2SC2412K | TRANSISTOR | | |
| Q7 | | | DTC144EK | DIGITAL TRANSISTOR | | |
| Q10 -14 | | | DTC144EK | DIGITAL TRANSISTOR | | |
| Q15 -20 | | | 2SD1757K | TRANSISTOR | D | |
| Q17 -20 | | | 2SD1757K | TRANSISTOR | L, N | |
| Q21 , 22 | | | 2SK433 | FET | | |
| Q23 -25 | | | DTC144EK | DIGITAL TRANSISTOR | L, N | |
| Q23 , 24 | | | DTC144EK | DIGITAL TRANSISTOR | D | |
| Q26 , 27 | | | DTA144EK | DIGITAL TRANSISTOR | L, N | |
| Q27 | | | DTA144EK | DIGITAL TRANSISTOR | D | |
| Q29 | | | DTC144EK | DIGITAL TRANSISTOR | | |
| Q30 -32 | | | 2SC2412K | TRANSISTOR | | |
| Q33 | | | DTC144EK | DIGITAL TRANSISTOR | D | |
| Q34 | | | DTA114EK | DIGITAL TRANSISTOR | | |
| Q35 | | | DTC144EK | DIGITAL TRANSISTOR | | |
| Q36 | | | DTA144EK | DIGITAL TRANSISTOR | | |
| Q37 | | | 2SB1370 | TRANSISTOR | | |
| Q38 | | | 2SC2412K | TRANSISTOR | | |
| Q39 | | | DTA144EK | DIGITAL TRANSISTOR | | |
| Q41 | | | 2SC2412K | TRANSISTOR | | |
| Q42 -44 | | | DTC144EK | DIGITAL TRANSISTOR | D | |
| Q46 -48 | | | 2SA1037K | TRANSISTOR | D | |

D:KRC-453D

L:KRC-453L

N:KRC-453N

▲ indicates safety critical components.

PARTS LIST

* New Parts

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| Ref. No. 参照番号 | Address 位 置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | | | Desti- nation 仕 向 | Re- marks 備考 |
|------------------|----------------|-------------------|----------------------|----------------------------------|------------------|--|-------------------------|--------------------|
| Q46 ,47 | | | 2SA1037K DTC144EK | TRANSISTOR DIGITAL TRANSISTOR | | | L , N | |
| Q49 | | | 2SC2412K | TRANSISTOR | | | | |
| Q51 -54 | | | DTA144EK | DIGITAL TRANSISTOR | | | | |
| Q55 | | | DTC114EK | DIGITAL TRANSISTOR | | | | |
| Q56 | | | | | | | | |
| Q57 | | | 2SA1428(0, Y) | TRANSISTOR | | | | |
| Q58 | | | 2SC2412K | TRANSISTOR | | | | |
| TU1 | 3D | * | W02-1279-15 | TUNER ASSY | | | D | |
| TU1 | 3D | * | W02-1280-15 | TUNER ASSY | | | L , N | |
| PL5 | | | B30-1346-05 | LAMP | (5.5V, 125A AMB) | | D , L | |
| PL5 | | | B30-1353-05 | LAMP | (5.5V, 125MA) | | N | |
| PL6 | | | B30-1350-05 | LAMP | (5.5V, 125MA) | | D , L | |
| PL6 | | | B30-1351-05 | LAMP | (5.5V, 125MA) | | N | |

DAUGHTER UNIT (X89-128X-XX)

| | | | | | | | | |
|---------|----|--|-----------------------------|------------------------|-----------------|------------|-------|--|
| C1 -3 | | | C92-0005-05 CK73EB1H103K | ELECTRO CHIP C | 2.2UF 0.01UF | 6.3WV K | | |
| C11 ,12 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C13 -15 | | | C92-0005-05 CK73FB1H182K | ELECTRO CHIP C | 2.2UF 1800PF | 6.3WV K | | |
| C16 | | | | | | | | |
| C53 -56 | | | | | | | | |
| C57 ,58 | | | CK73FB1H223KTA | CHIP C | 0.022UF | K | | |
| C59 ,60 | | | CC73FCH1H030C | CHIP C | 3PF | C | | |
| C61 ,62 | | | CE04DW1E4R7M | ELECTRO | 4.7UF | 25WV | | |
| C63 | | | CE04DW1A101M | ELECTRO | 100UF | 10WV | | |
| CN20 | 1D | | E08-4001-05 | RECTANGULAR RECEPTACLE | | | | |
| N | 1D | | N80-2005-46 | PAN HEAD TAPPIE SCREW | | | | |
| R1 | | | RK73FB2A822J | CHIP R | 8.2K | J | 1/10W | |
| R2 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R3 | | | RK73EB2B332J | CHIP R | 3.3K | J | 1/8W | |
| R4 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R5 | | | RK73FB2A105J | CHIP R | 1.0M | J | 1/10W | |
| R6 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | |
| R7 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | |
| R8 | | | RK73EB2B101J | CHIP R | 100 | J | 1/8W | |
| R9 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | |
| R12 ,13 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R21 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | |
| R22 | | | RK73EB2B473J | CHIP R | 47K | J | 1/8W | |
| R23 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R24 | | | RK73EB2B472J | CHIP R | 4.7K | J | 1/8W | |
| R25 ,26 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | |
| R27 ,28 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R29 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | |
| R30 | | | RK73EB2B103J | CHIP R | 10K | J | 1/8W | |
| R31 -33 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R34 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R35 ,36 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | |
| R37 ,38 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | |
| R45 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R46 | | | RK73EB2B472J | CHIP R | 4.7K | J | 1/8W | |
| R47 ,48 | | | RK73EB2B183J | CHIP R | 18K | J | 1/8W | |
| R49 ,50 | | | RK73EB2B100J | CHIP R | 10 | J | 1/8W | |

D:KRC-453D

L:KRC-453L

N:KRC-453N

▲ indicates safety critical components.

KRC-453 D/L/N

PARTS LIST

* New Parts

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|------------------|----------------|------------------------|-------------------|-------------------------|--------------|---|-------|------|-------------------------|--------------------|
| R51 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | | |
| R52 | | | RK73EBB2B472J | CHIP R | 4.7K | J | 1/8W | | | |
| R53 , 54 | | | RK73EBB2B103J | CHIP R | 18K | J | 1/8W | | | |
| R55 , 56 | | | RK73EBB2B101J | CHIP R | 100 | J | 1/8W | | | |
| R57 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | | |
| R58 | | | RK73EBB2B102J | CHIP R | 1.0K | J | 1/8W | | | |
| R59 , 60 | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | | |
| R61 , 62 | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | | |
| R63 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | | |
| VR1 , 2 | | | R10-4031-15 | POTENTIOMETER | | | | | | |
| W1 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | | |
| W3 , 4 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | | |
| W5 , 6 | | | R92-2053-05 | CHIP R | 0 | J | 1/8W | | | |
| W7 , 8 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | | |
| W11 , 12 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | | |
| W17 | | | R92-2053-05 | CHIP R | 0 | J | 1/8W | | | |
| W21 | | | R92-2052-05 | CHIP R | 0 | J | 1/10W | | | |
| W22 -31 | | | R92-2053-05 | CHIP R | 0 | J | 1/8W | | | |
| b1 | | | MA8068-M | ZENER DIODE | | | | | | |
| D2 , 3 | | | MA110 | DIODE | | | | | | |
| D2 , 3 | | | 1SS355 | DIODE | | | | | | |
| D4 | | | DAN202K | DIODE | | | | | | |
| D11 | | | MA110 | DIODE | | | | | | |
| D11 | | | 1SS355 | DIODE | | | | | | |
| D12 | | | ERA15-01 | DIODE | | | | | | |
| D13 | | | MA110 | DIODE | | | | | | |
| D13 | | | 1SS355 | DIODE | | | | | | |
| IC1 | | | TC74HC04AF | IC(INVERTER) | | | | | | |
| IC2 | | * | NJM4565L-D | IC(OP AMP X2) | | | | | | |
| Q1 -3 | | | DTC144EK | DIGITAL TRANSISTOR | | | | | | |
| Q4 -6 | | | 2SC2412K | TRANSISTOR | | | | | | |
| Q7 | | | DTC114TK | DIGITAL TRANSISTOR | | | | | | |
| Q11 | | | DTC144EK | DIGITAL TRANSISTOR | | | | | | |
| Q12 | | | 2SC2412K | TRANSISTOR | | | | | | |
| Q13 | | | DTC144EK | DIGITAL TRANSISTOR | | | | | | |
| Q14 | | | 2SA1037K | TRANSISTOR | | | | | | |
| PL1 -4 | | | B30-1305-05 | LAMP | (5.5V .125A) | | | D, L | | |
| PL1 -4 | | | B30-1306-05 | LAMP | (5.5V .125A) | | | N | | |

MECHANISM ASSY (D40-1023-05)

| | | | | | | | | | | |
|----|--------|--|-------------|-----------------------|--|--|--|--|--|--|
| 1 | 2A | | A10-2089-08 | CHASSIS CALKED ASSY | | | | | | |
| 2 | 2B | | J21-7207-08 | MOUNTING HARDWARE | | | | | | |
| 3 | 3A | | D14-0616-08 | ROLLER A | | | | | | |
| 4 | 3A | | N24-3012-41 | E TYPE RETAINING RING | | | | | | |
| 5 | 2B | | D14-0617-08 | ROLLER B | | | | | | |
| 6 | 2B | | D14-0618-08 | PINCH ROLLER F | | | | | | |
| 7 | 2A | | D14-0619-08 | PINCH ROLLER R | | | | | | |
| 8 | 3A | | D10-2666-08 | LEVER (FR CAM) | | | | | | |
| 9 | 2B | | D10-2667-08 | LEVER (PROGRAM) | | | | | | |
| 10 | 2A | | G01-2560-08 | TENSION SPRING | | | | | | |
| 11 | 3A | | D13-1079-08 | GEAR (IDLE) | | | | | | |
| 12 | 3A, 3B | | D13-1081-08 | GEAR (TAKE UP) | | | | | | |
| 13 | 2B | | D15-0908-08 | PULLEY | | | | | | |
| 14 | 3B | | D10-2668-08 | LEVER | | | | | | |

D:KRC-453D

L:KRC-453L

N:KRC-453N

 indicates safety critical components.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

| Ref. No. | Address | New Parts | Parts No. | Description | Desti- nation | Re- marks |
|----------|---------|-----------|-------------|----------------------------|------------------|--------------|
| 参照番号 | 位 置 | 新 | 部品番号 | 部品名 / 規格 | 仕 向 | 備考 |
| 15 | 3B | | D10-2679-08 | LEVER | | |
| 16 | 3B | | G01-2557-08 | TENSION SPRING | | |
| 17 | 3A, 3B | | D01-0603-08 | FLYWHEEL | | |
| 20 | 3A | | D10-2669-08 | LEVER | | |
| 21 | 2A | | D10-2670-08 | LEVER (LOCK) | | |
| 22 | 2A | | G01-2218-08 | TENSION SPRING | | |
| 23 | 2A | | N84-2004-45 | SCREW (M2X4) | | |
| 25 | 3B | | D13-1078-08 | GEAR | | |
| 30 | 3A | | A11-0848-08 | SUB CHASSIS ASSY | | |
| 31 | 3A | | A11-0847-08 | SUB CHASSIS ASSY | | |
| 32 | 3A | | D13-1077-08 | GEAR (SWITCHING) | | |
| 33 | 3A | | G01-2563-08 | TORSION SPRING | | |
| 35 | 3A | * | G01-2579-18 | TENSION SPRING | | |
| 36 | 3A | | G02-0473-08 | FLAT SPRING | | |
| 37 | 3A | * | D10-2645-18 | LEVER | | |
| 38 | 3A | * | D10-2671-18 | LEVER | | |
| 39 | 3A | | G10-1012-08 | FELT | | |
| 40 | 3A | | D03-0305-08 | REEL DISK | | |
| 41 | 2B | | N14-0701-08 | NUT | | |
| 43 | 2B | | N30-2004-46 | SCREW (M2X4) | | |
| 44 | 2B | | G01-2573-08 | TORSION SPRING | | |
| 45 | 2B | | G01-2571-08 | TENSION SPRING | | |
| 51 | 2A | | D10-2672-08 | LEVER (EJECT) | | |
| 52 | 2A | | G01-2216-08 | TENSION SPRING | | |
| 53 | 2A | | D10-2673-08 | ACTION ARM | | |
| 54 | 2A | | G01-2217-08 | TENSION SPRING | | |
| 60 | 1B | | J19-4387-08 | HOLDER | | |
| 61 | 1B | | J19-4380-08 | HOLDER | | |
| 63 | 1B | | G01-2212-08 | TENSION SPRING | | |
| 64 | 1B | | D10-2130-08 | LEVER (INV) | | |
| 65 | 1A | | J90-0610-08 | CASSETTE GUIDE | | |
| 66 | 1A | | G01-2225-08 | TORSION SPRING | | |
| 67 | 1A | | G09-0093-08 | SPRING | | |
| 68 | 1A | | J19-2990-08 | HOLDER | | |
| 69 | 1B | | N39-2004-08 | SCREW (M2X4) | | |
| 70 | 1A | * | G11-1065-08 | CUSHION | | |
| 71 | 1B | | J21-7264-08 | MOUNTING HARDWARE | | |
| 72 | 1B | | D10-2674-08 | LEVER (RELEASE) | | |
| 73 | 1B | | G01-2574-08 | TORSION SPRING | | |
| 74 | 1B | | G01-2556-08 | TENSION SPRING | | |
| 77 | 1B | | N39-1706-45 | SCREW (M1.7X6) | | |
| 78 | 1B | | D10-2675-08 | LEVER (REW) | | |
| 79 | 1B | | D10-2676-08 | LEVER (FF) | | |
| 81 | 1B | | G01-2572-08 | TENSION SPRING | | |
| 83 | 1B | | N09-4039-08 | SCREW | | |
| 84 | 2B | | D10-2677-08 | LEVER (SW) | | |
| 85 | 2B | | J74-0040-08 | PRINTED WIRING BOARD | | |
| 86 | 2B | | J84-0009-08 | PRINTED WIRING BOARD (FPC) | | |
| 92 | 2A | | N39-2002-46 | SCREW (M2X2) | | |
| 101 | 2A | | J21-7205-08 | MOUNTING HARDWARE | | |
| 102 | 2A | | D10-2664-08 | LEVER | | |
| 103 | 2A | | G01-2567-08 | TENSION SPRING | | |
| 109 | 2A | | N30-2003-08 | SCREW (M2X3) | | |
| 112 | 3B | | D16-0605-08 | BELT | | |
| 121 | 1A | | D10-2658-08 | ARM | | |

D:KRC-453D

L:KRC-453L

N:KRC-453N

△ indicates safety critical components

KRC-453 D/L/N

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

| Ref. No. 参照番号 | Address 位 置 | New Parts 新 品 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕 向 | Re- marks 備考 |
|------------------|----------------|------------------------|-------------------|-------------------------|-------------------------|--------------------|
| 122 | 1A | | D10-2678-08 | LEVER | | |
| 123 | 1A | | J12-0647-08 | PIN | | |
| 124 | 1A | | G01-2562-08 | TORSION SPRING | | |
| 125 | 2B | | J90-0722-08 | CASSETTE GUIDE | | |
| 126 | 2B | | N09-4009-08 | SCREW (M2X5) | | |
| 127 | 1B | | N35-2006-46 | SCREW (M2.6X6) | | |
| 152 | 2A, 2B | | N90-2003-46 | SCREW (M2X3) | | |
| 153 | 3A | | N30-2603-46 | SCREW (M2.6X3) | | |
| 161 | 3A, 3B | | N19-1144-08 | FLAT WASHER | | |
| 162 | 2B, 3A | | N19-1134-08 | FLAT WASHER | | |
| 163 | 2A, 2B | | N19-1135-08 | FLAT WASHER | | |
| 164 | 3A, 3B | | N19-1137-08 | FLAT WASHER | | |
| 181 | 2A | | E40-9127-05 | PIN CONNECTOR | | |
| 182 | 2B | | J19-4389-08 | HOLDER | | |
| HD1 | 2B | | T31-0205-08 | PLAYBACK HEAD | | |
| M1 | 2A | | T42-0716-08 | DC MOTOR ASSY | | |
| S1 | 2A | | S31-3633-08 | SLIDE SWITCH | | |
| S2 | 2B | | S31-3634-08 | SLIDE SWITCH | | |
| S3 | 1B | | S46-1606-08 | LEAF SWITCH | | |
| S4 | 1B | | S46-1607-08 | LEAF SWITCH | | |

D:KRC-453D

L:KRC-453L

N:KRC-453N

▲ indicates safety critical components.

KRC-453 D/L/N

SPECIFICATIONS

Specifications subject to change without notice.

FM Tuner Section

| | |
|-----------------------------------|--------------------|
| Frequency Range | 87.5MHz - 108.0MHz |
| Usable Sensitivity (DIN) | 1.1 μ V/75ohms |
| Stereo Sensitivity (S/N = 46dB) | 1.6 μ V/75ohms |
| Frequency Response (\pm 4.5dB) | 30Hz - 15kHz |
| Signal to Noise Ratio (IEC - A) | 68dB |
| Selectivity (DIN) | 70dB |
| Stereo Separation (1kHz) | 35dB |
| 19kHz Carrier Leakage | 65dB |

MW Tuner Section

| | |
|--------------------|------------------|
| Frequency Range | 531kHz - 1611kHz |
| Usable Sensitivity | 30 μ V |

LW Tuner Section

| | |
|--------------------|-----------------|
| Frequency Range | 153kHz - 281kHz |
| Usable Sensitivity | 60 μ V |

Cassette Deck Section

| | |
|----------------------------------|-----------------------------|
| Tape Speed | 4.76cm/sec. |
| Wow & Flutter (WRMS) | 0.12% (WRMS) |
| Fast Winding Time (C - 60) | 100sec. |
| Frequency Response (120 μ s) | 30Hz - 14kHz (+ 4dB, - 6dB) |
| (70 μ s) | 30Hz - 16kHz (+ 4dB, - 6dB) |
| Stereo Separation (1kHz) | 40dB |
| Signal to Noise Ratio | 52dB |

Audio Section

| | |
|-------------------------------------|--|
| Maximum Output Power | 25W \times 2 or 15W \times 4 |
| Output Power (10% THD, 1kHz, 4ohms) | 20W \times 2 |
| (1% THD, 1kHz, 4ohms) | 15W \times 2 |
| Tone Action | Bass : 100Hz \pm 10dB Treble : 10kHz \pm 10dB |
| Preout level/Impedance | 800mV (max.) / 180ohms |

General

| | |
|---|---------------------------------|
| Operating Voltage | 14.4V (11 - 16V allowable) |
| Current Consumption | 6A at Rated Power |
| Dimensions (W \times H \times D) | 188 \times 58 \times 177 mm |
| Installation size (W \times H \times D) | 182 \times 52 \times 159 mm |
| Weight | 2.0kg |

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

Shinogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION

2201 East Dominguez Street, Long Beach, CA 90810;
550 Clark Drive, Mount Olive, NJ 07828, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 KESTREL ROAD MISSISSAUGA, ONTARIO L 5 T 1S 8

TRIO-KENWOOD U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.

Mechelsesteenweg 418 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrucker-Str. 15, 6056 Heusenstamm, Germany

TRIO-KENWOOD FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD LINEAR S.p.A.

20125, MILANO-VIA ARBE, 50, ITALY

KENWOOD ELECTRONICS AUSTRALIA PTY LTD (INCORPORATED IN NSW)

P.O. Box 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 4th Floor, 34-37, Connaught Road, Central, Hong Kong